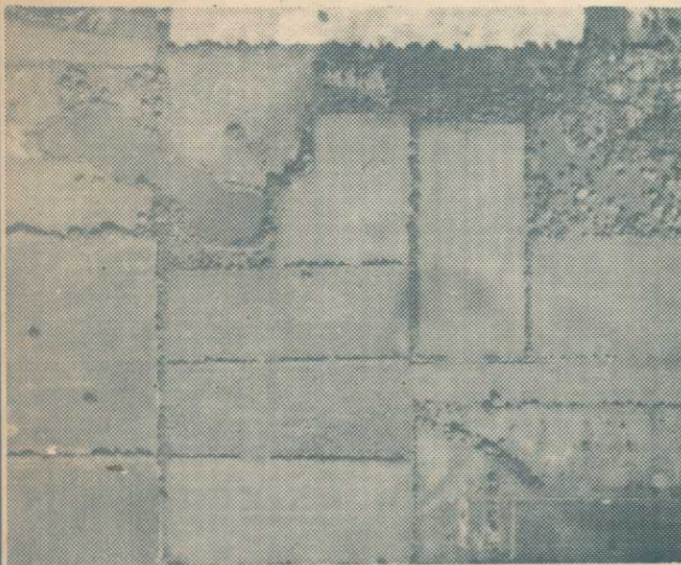
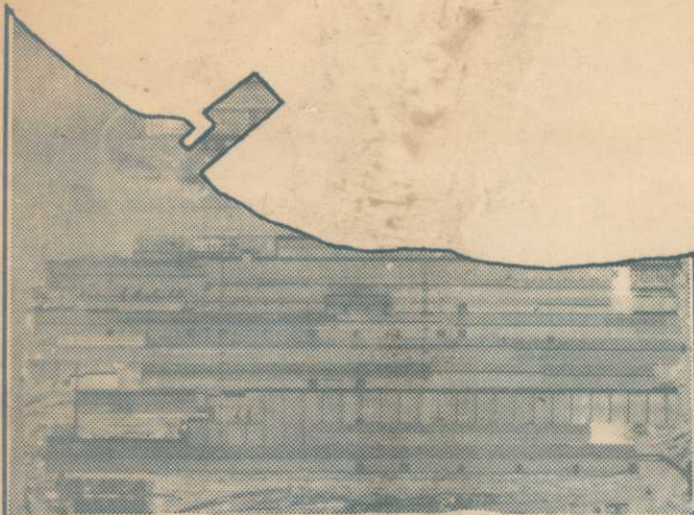


LAKE COUNTY,
INDIANA,
in MAPS



Daniel F. Dull

Occasional Publication No. 6

Dept. of Geography

Indiana University

912.7729

DULL

LAKE COUNTY,

INDIANA,

IN MAPS

by

Daniel F. Dull

14137335

OCCASIONAL PUBLICATION NO. 6

Department of Geography
Indiana University
Bloomington, Indiana
47401

Robert C. Kingsbury
Project Director

Support for publication of this atlas provided by:

Lake-Porter County Regional Transportation and Planning Commission
Highland, Indiana 46322

Price: \$1.50

All orders for this publication should be addressed to:

Secretary, Department of Geography
Indiana University
Bloomington, Indiana 47401

Prepayment required for personal orders.
Make check or money order payable to:

Indiana University Foundation, Geography Publications Series

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Printed in the United States of America
Library of Congress Catalog Card Number 78-654276

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FORWARD

This small thematic atlas of Lake County, Indiana, is, I believe, the first one of its kind. Its maps are designed to give their user a general overview of the historical and cultural development of this county.

There are three types of cartographic products in this atlas: maps that were redrawn adaptations of existing maps, maps that were compiled by combining elements contained on two or more existing maps, and maps that were compiled from statistical sources. All major map and statistical data sources are listed in a separate section at the end of the atlas.

Appreciation must be expressed to Professor Robert C. Kingsbury, who was my cartographic advisor, and without whose help this atlas would not have been completed. I would also like to express many thanks to Professor H. Frye, Professor D. Pett, Professor L. C. Bennion, John M. Hollingsworth, David Cobb, Gary Conner, Bob Sexton, Donna Lassanske, the professional staff at Lake-Porter County Regional Transportation and Planning Commission, and many others for their assistance.

I would like to dedicate the work to my father, Mr. Daniel Dull, with much appreciation for his guidance in my life.

Hopefully, there are not too many errors, but inevitably there are some. I would appreciate all information on errors, no matter how small, so that they may be corrected if this atlas proves to be of sufficient value for a second edition. Also, I would appreciate suggestions for other maps that might be helpful to users of this atlas. Please address information on corrections needed and suggestions for map additions (or deletions) to the undersigned at: Department of Geography, Indiana University, Bloomington, Indiana, 47401.

Daniel F. Dull

June, 1971

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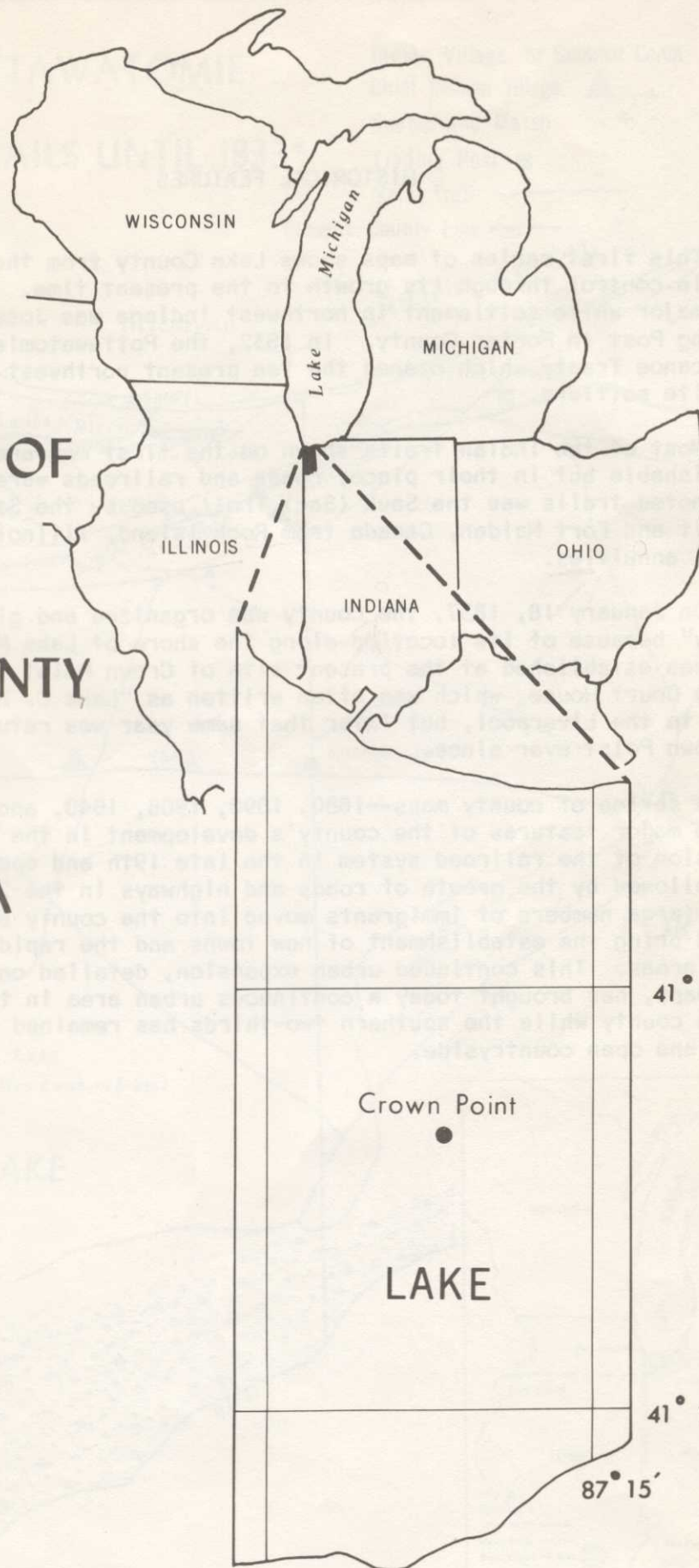
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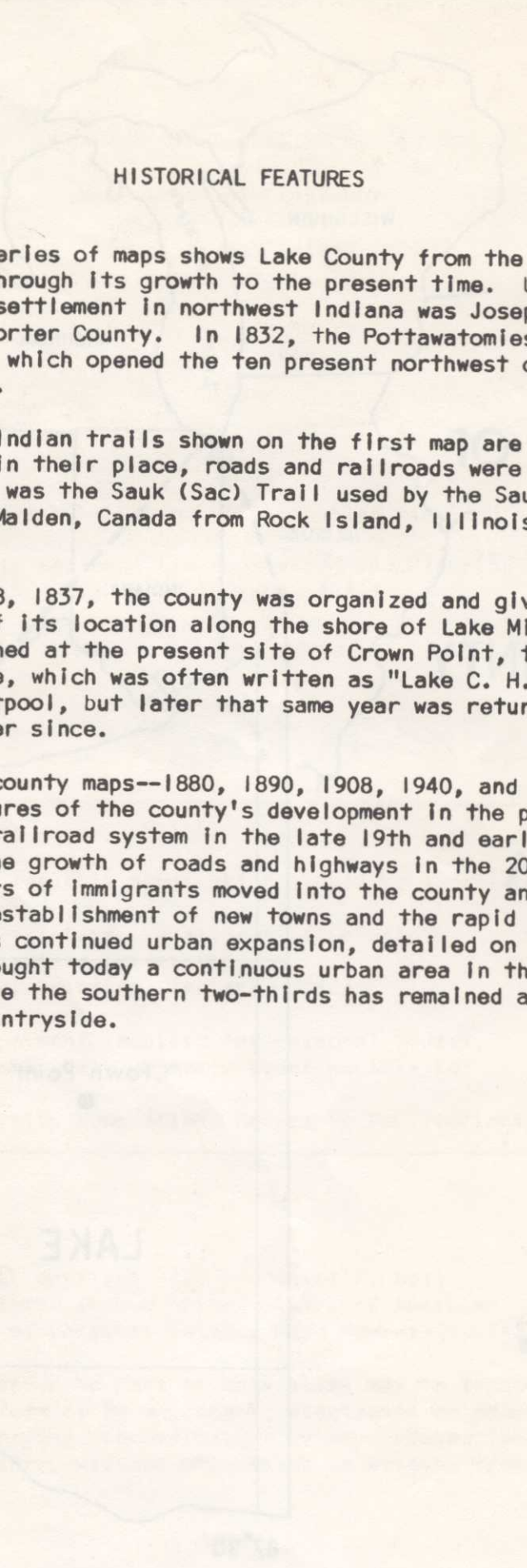
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LOCATION OF LAKE COUNTY INDIANA





HISTORICAL FEATURES

This first series of maps shows Lake County from the period of Pottawatomie control through its growth to the present time. Up until 1833, the only major white settlement in northwest Indiana was Joseph Bailly's Fur Trading Post in Porter County. In 1832, the Pottawatomies signed the Tippecanoe Treaty which opened the ten present northwest counties of Indiana to white settlers.

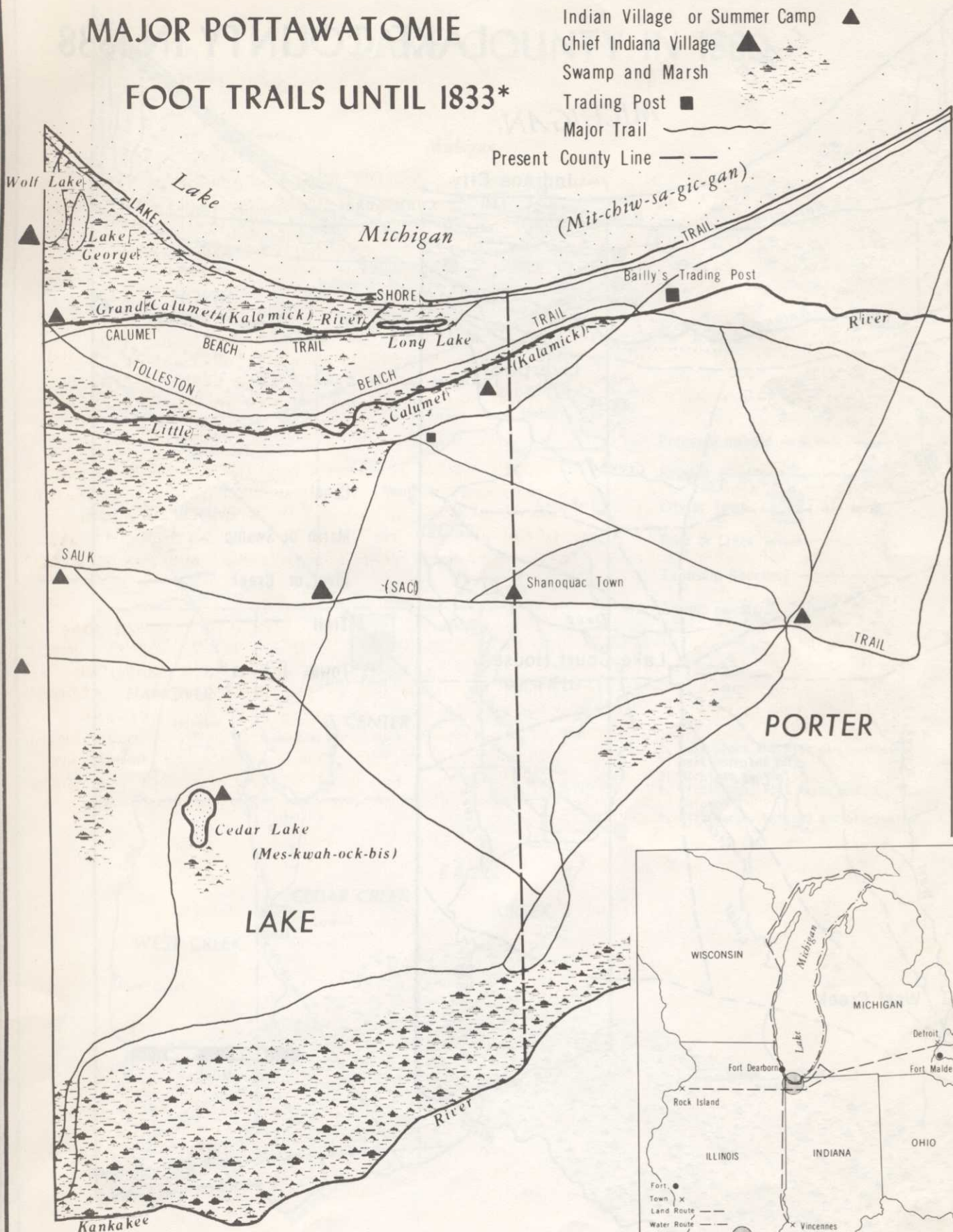
Most of the Indian trails shown on the first map are no longer distinguishable but in their place, roads and railroads were built. One of the most noted trails was the Sauk (Sac) Trail used by the Sauk Tribe to reach Detroit and Fort Malden, Canada from Rock Island, Illinois to receive their annual annuities.

On January 18, 1837, the county was organized and given the name "Lake County" because of its location along the shore of Lake Michigan. The county seat was established at the present site of Crown Point, then called Lake County Court House, which was often written as "Lake C. H." In 1839, it was moved to the Liverpool, but later that same year was returned and has remained at Crown Point ever since.

A series of county maps--1880, 1890, 1908, 1940, and 1970--record some of the major features of the county's development in the past 90 years. The expansion of the railroad system in the late 19th and early 20th Centuries was followed by the growth of roads and highways in the 20th Century. After 1880, large numbers of immigrants moved into the county and their arrival helped bring the establishment of new towns and the rapid growth of existing urban areas. This continued urban expansion, detailed on the 1908, 1940 and 1970 maps, has brought today a continuous urban area in the northern one-third of the county while the southern two-thirds has remained a region of small towns and open countryside.

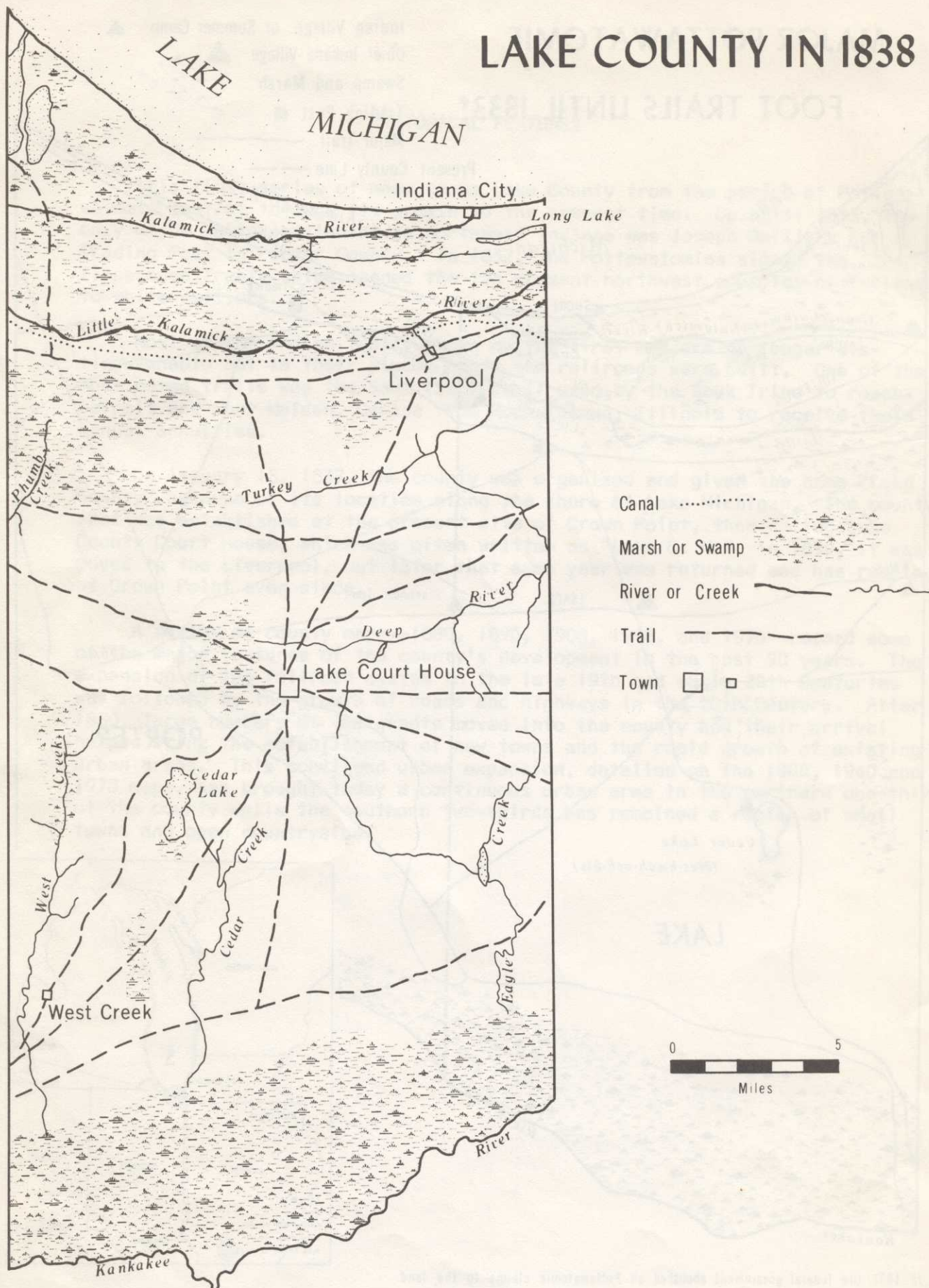
MAJOR POTTAWATOMIE

FOOT TRAILS UNTIL 1833*

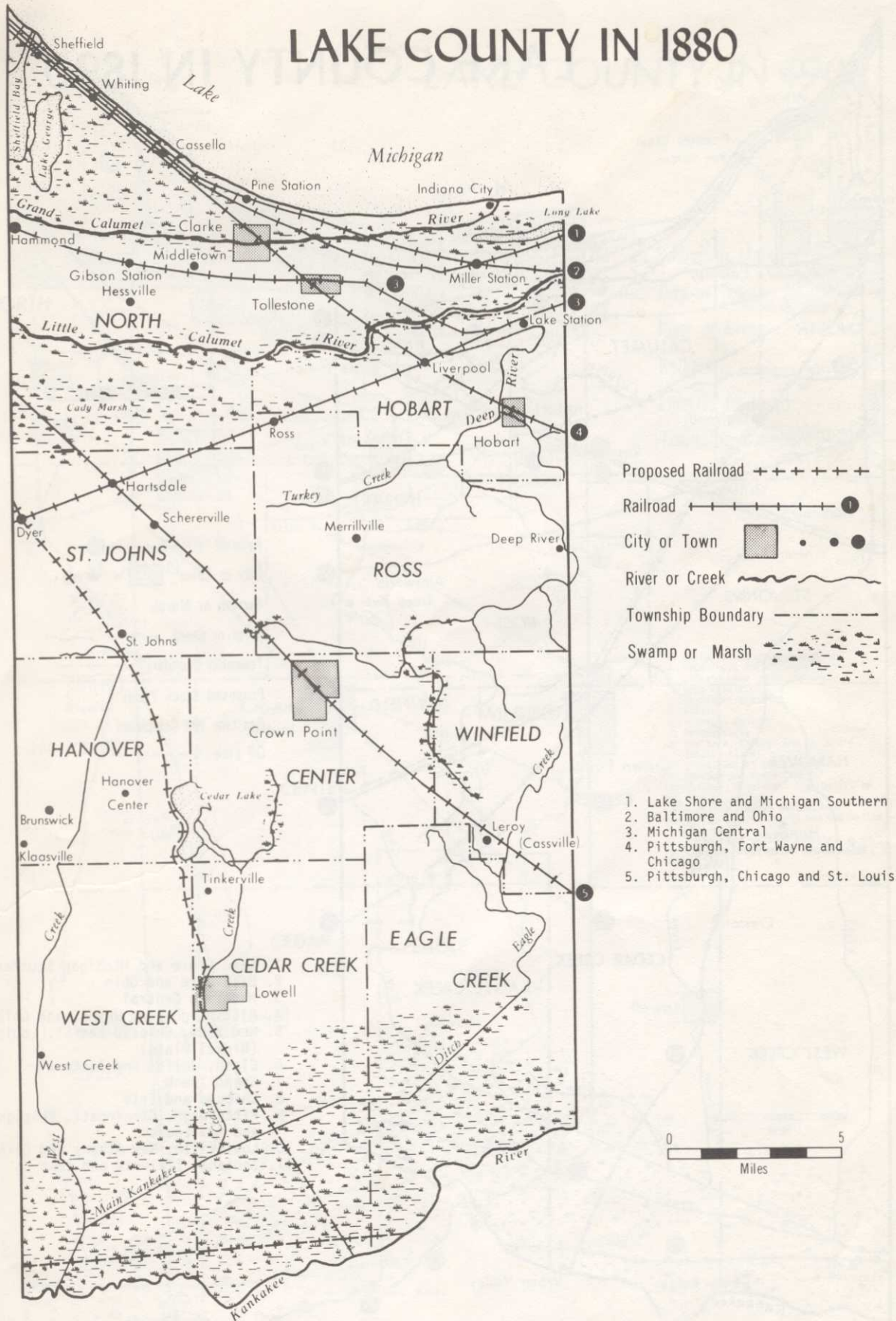


* In 1832 the federal government abolished all Pottawatomie claims to the land

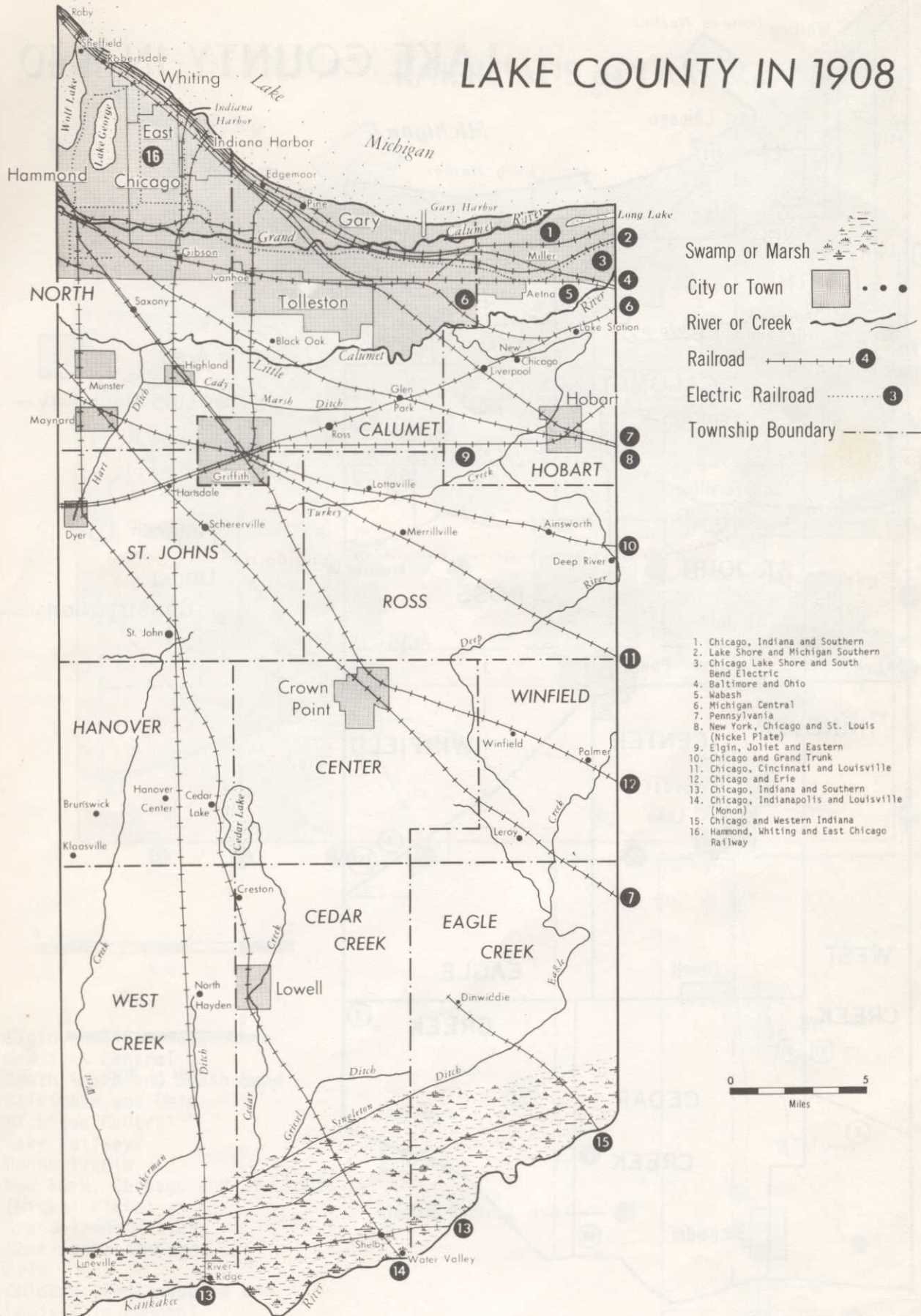
LAKE COUNTY IN 1838



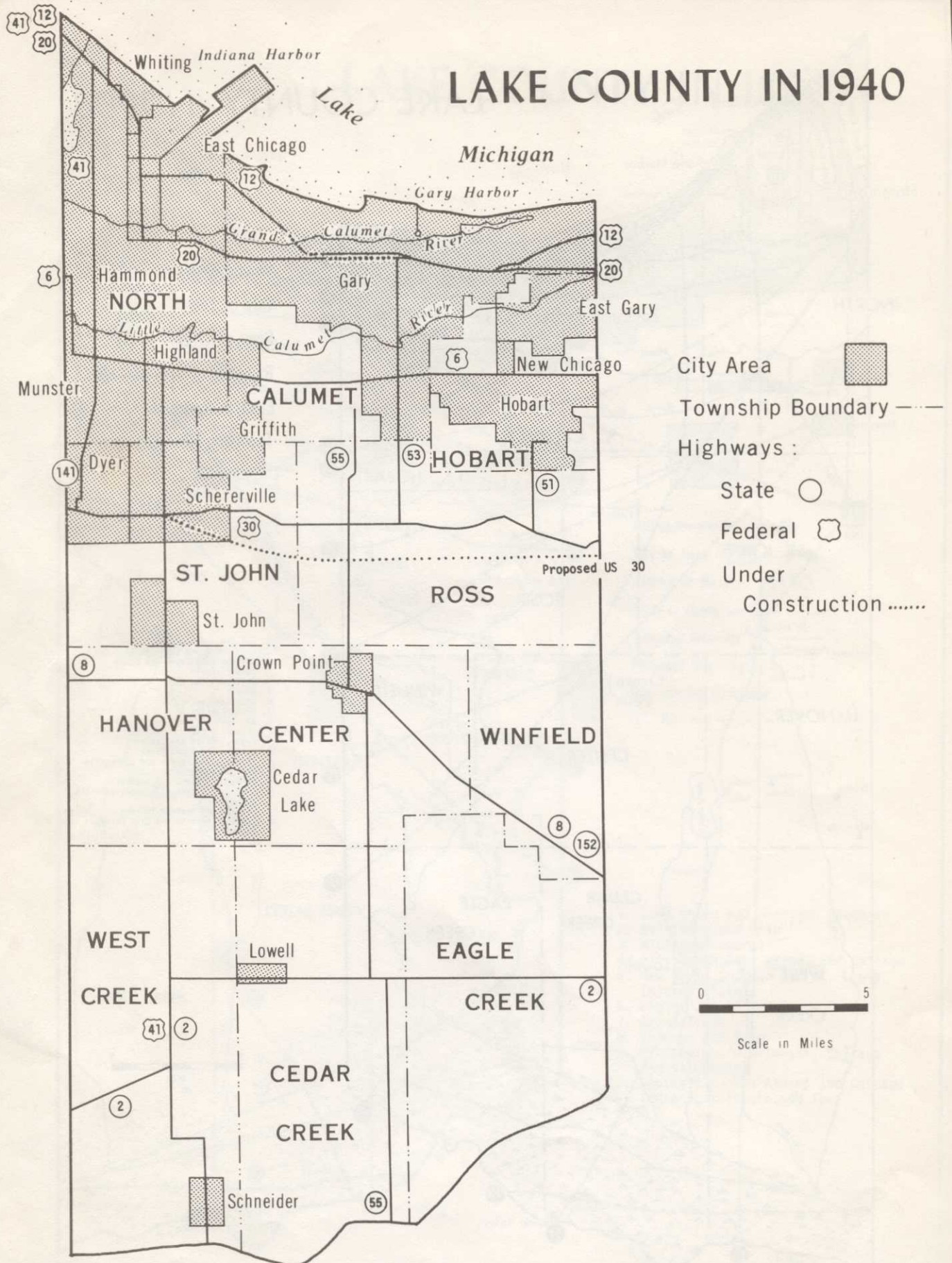
LAKE COUNTY IN 1880



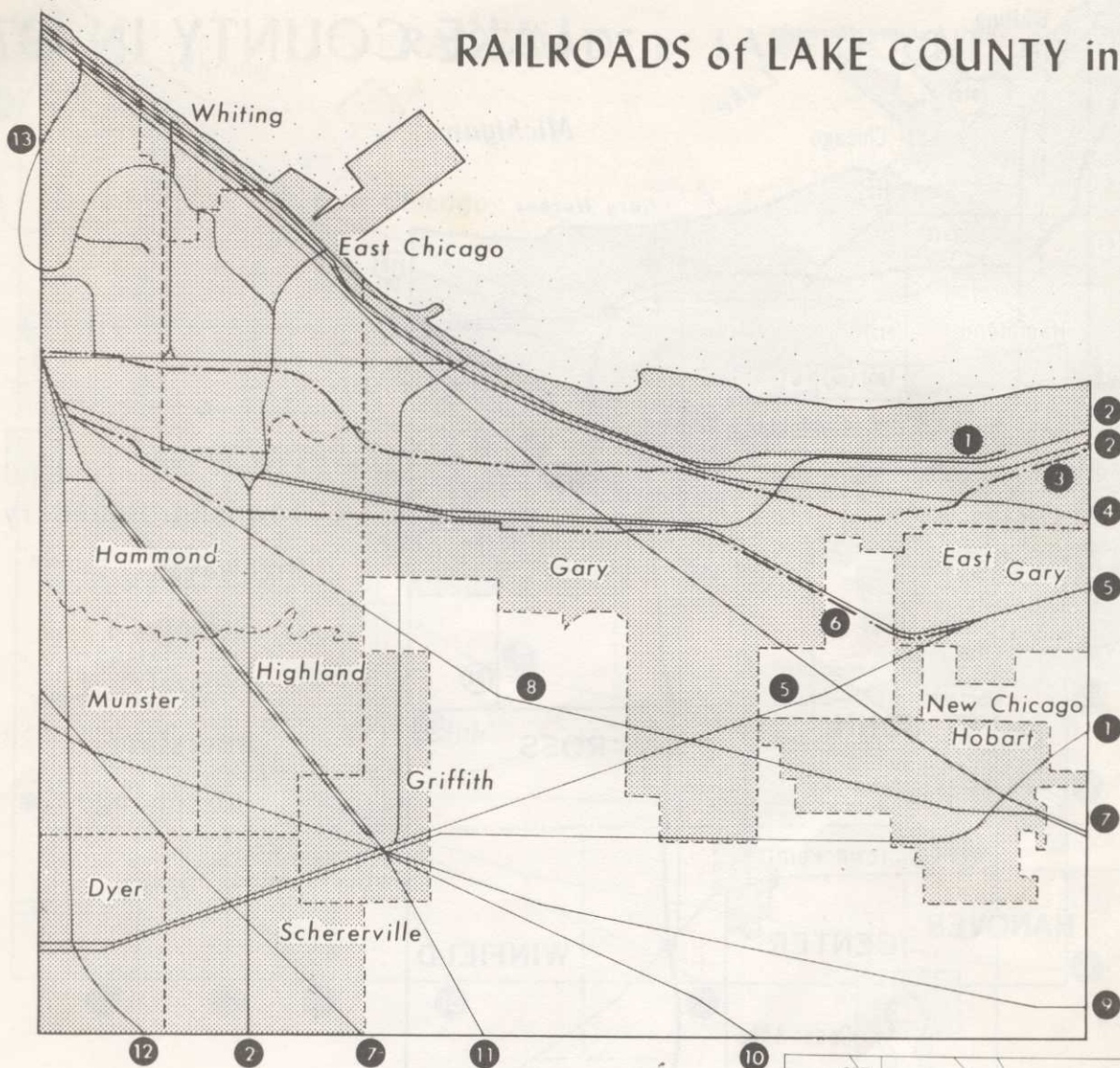
LAKE COUNTY IN 1908



LAKE COUNTY IN 1940



RAILROADS of LAKE COUNTY in 1940



0 5
Miles

1. Elgin, Joliet and Eastern
2. New York Central
3. South Shore and South Bend
4. Baltimore and Ohio
5. Michigan Central
6. Gary Railways
7. Pennsylvania
8. New York, Chicago and St. Louis (Nickel Plate)
9. Grand Trunk Western
10. Chesapeake and Ohio
11. Erie
12. Chicago, Indianapolis and Louisville (Monon)
13. Indiana Harbor Belt

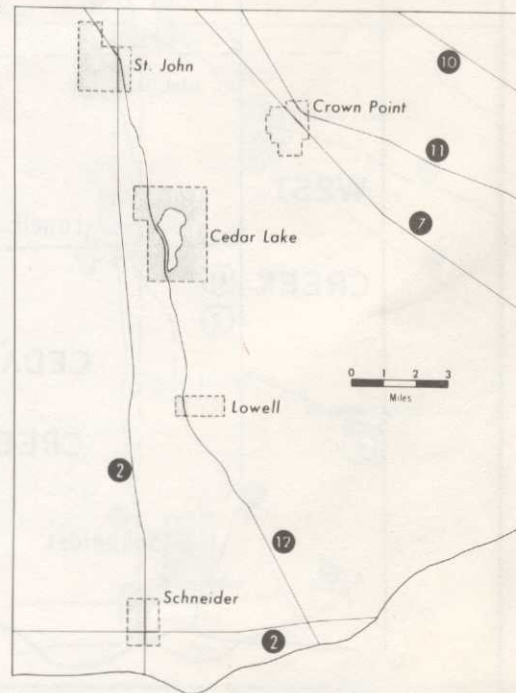
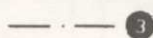
City Area



Railroad

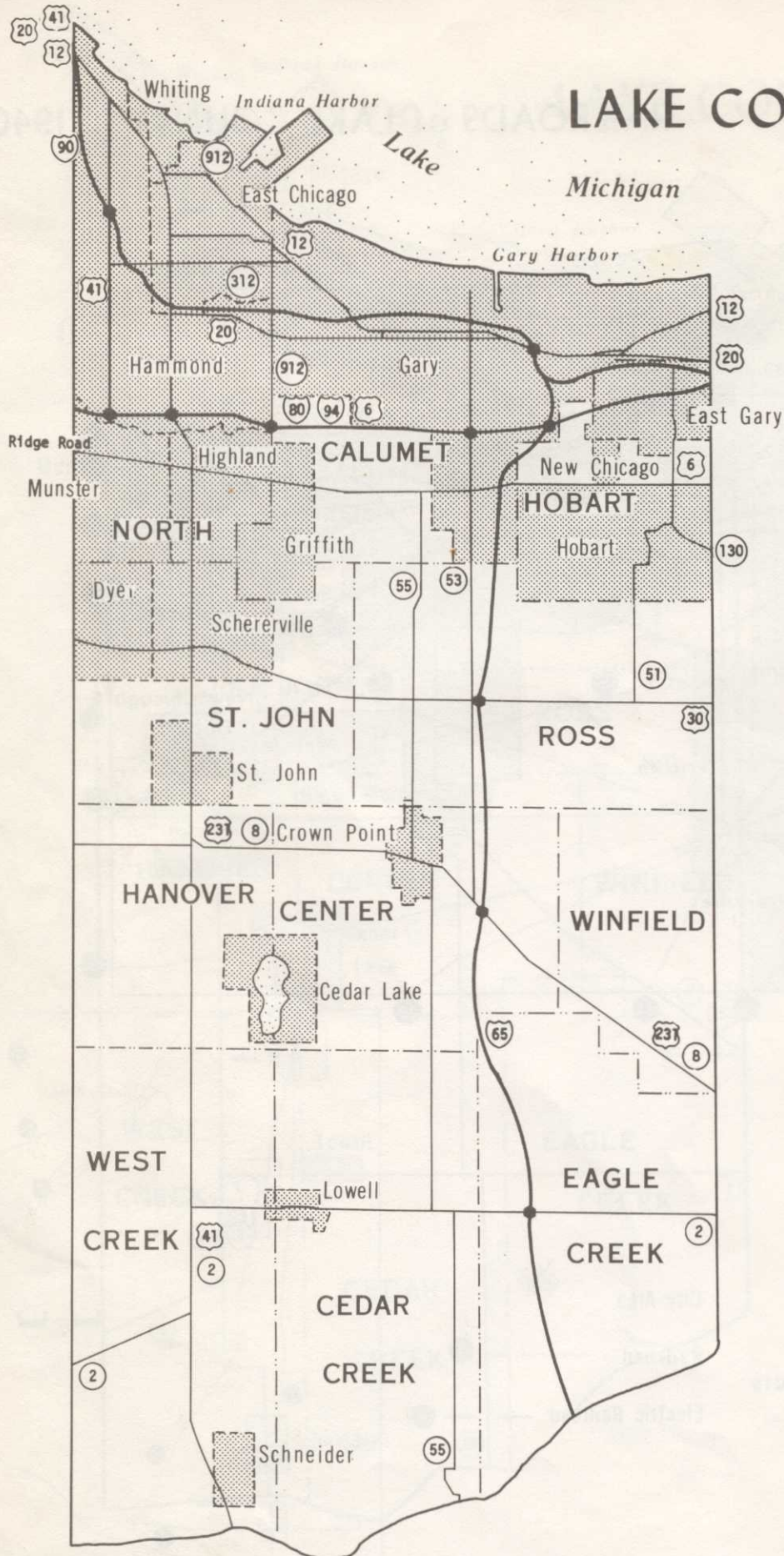


Electric Railroad



0 1 2 3
Miles

LAKE COUNTY IN 1970



City Area

Township Boundary ———

Highways:

State ○

Federal □

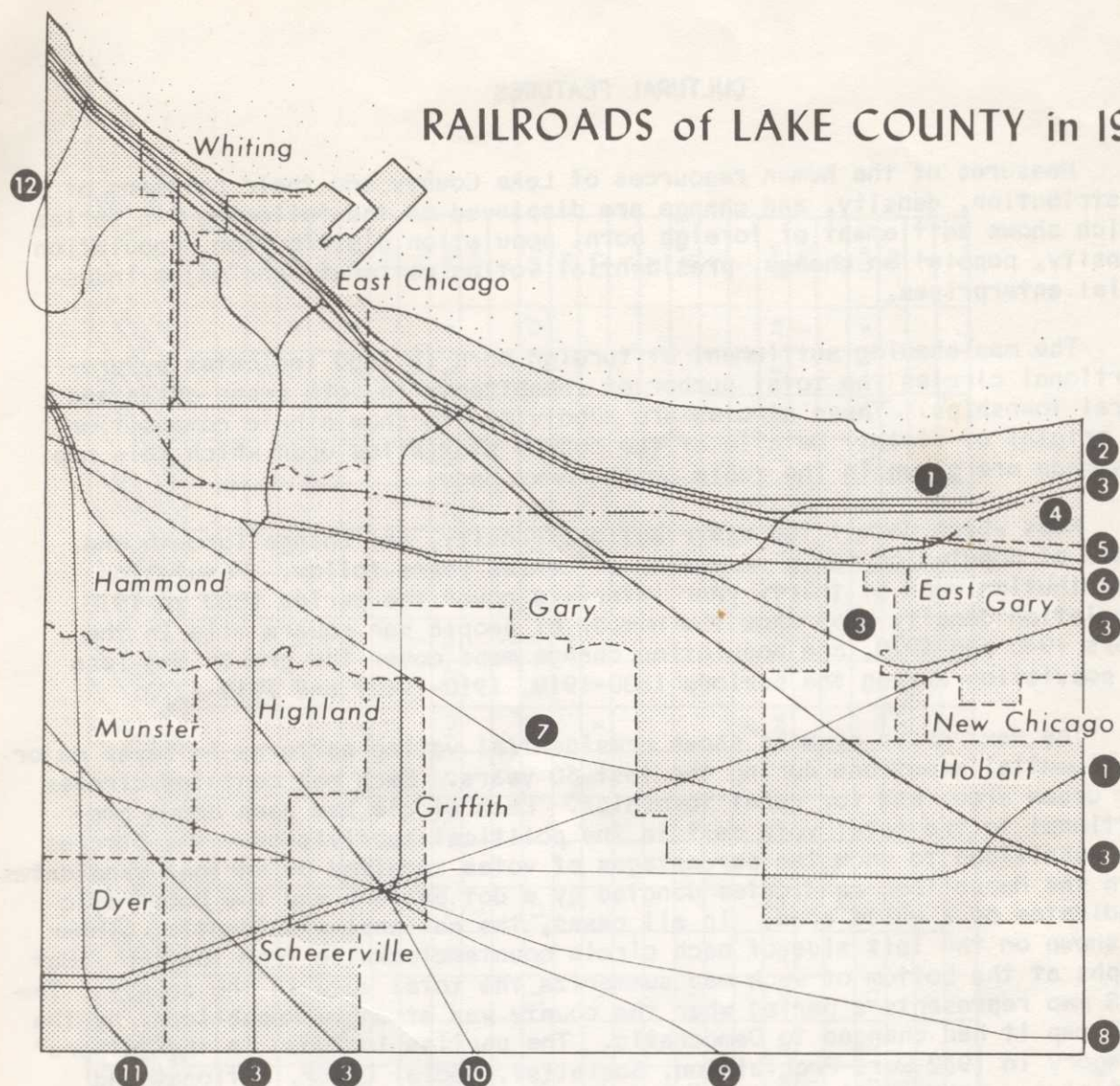
Interstate □

Interchange ●

0 5

Scale in Miles

RAILROADS of LAKE COUNTY in 1970



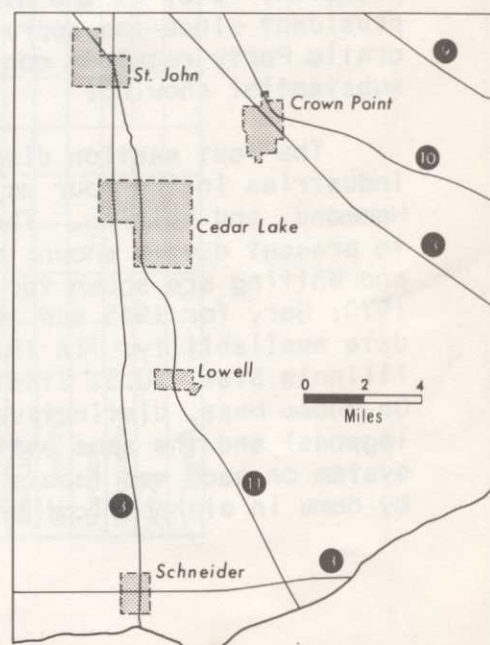
0 5
Miles

1. Elgin, Joliet and Eastern
2. Penn Central and Indiana Harbor Belt
3. Penn Central
4. South Shore and South Bend
5. Baltimore and Ohio
6. Wabash
7. Penn Central, Chicago and St. Louis
8. Grand Trunk
9. Chesapeake and Ohio
10. Erie - Lackawanna
11. Chicago, Indianapolis and Louisville (Monon)
12. Indiana Harbor Belt

City Area

Railroad

Electric Railroad



CULTURAL FEATURES

Measures of the human resources of Lake County and their patterns of distribution, density, and change are displayed on the following map series which shows settlement of foreign born, population distribution, population density, population change, presidential voting patterns, and major industrial enterprises.

The map showing settlement of foreign born in 1880 indicates by proportional circles the total number of inhabitants in both urban areas and rural townships. These circles are subdivided to show ethnic composition by origins of birth. Details of the census statistics upon which this map was made are given in the table on the next page.

Maps which detail the distribution, density, and change (growth and loss) of population for a selection of census years follow. Population distribution maps at thirty year intervals cover the period 1880 to 1970. Population density maps show the number of people per square mile in the years 1940 and 1970, and population change maps cover the growth and loss of population during the periods 1880-1910, 1910-1940, and 1940-1970.

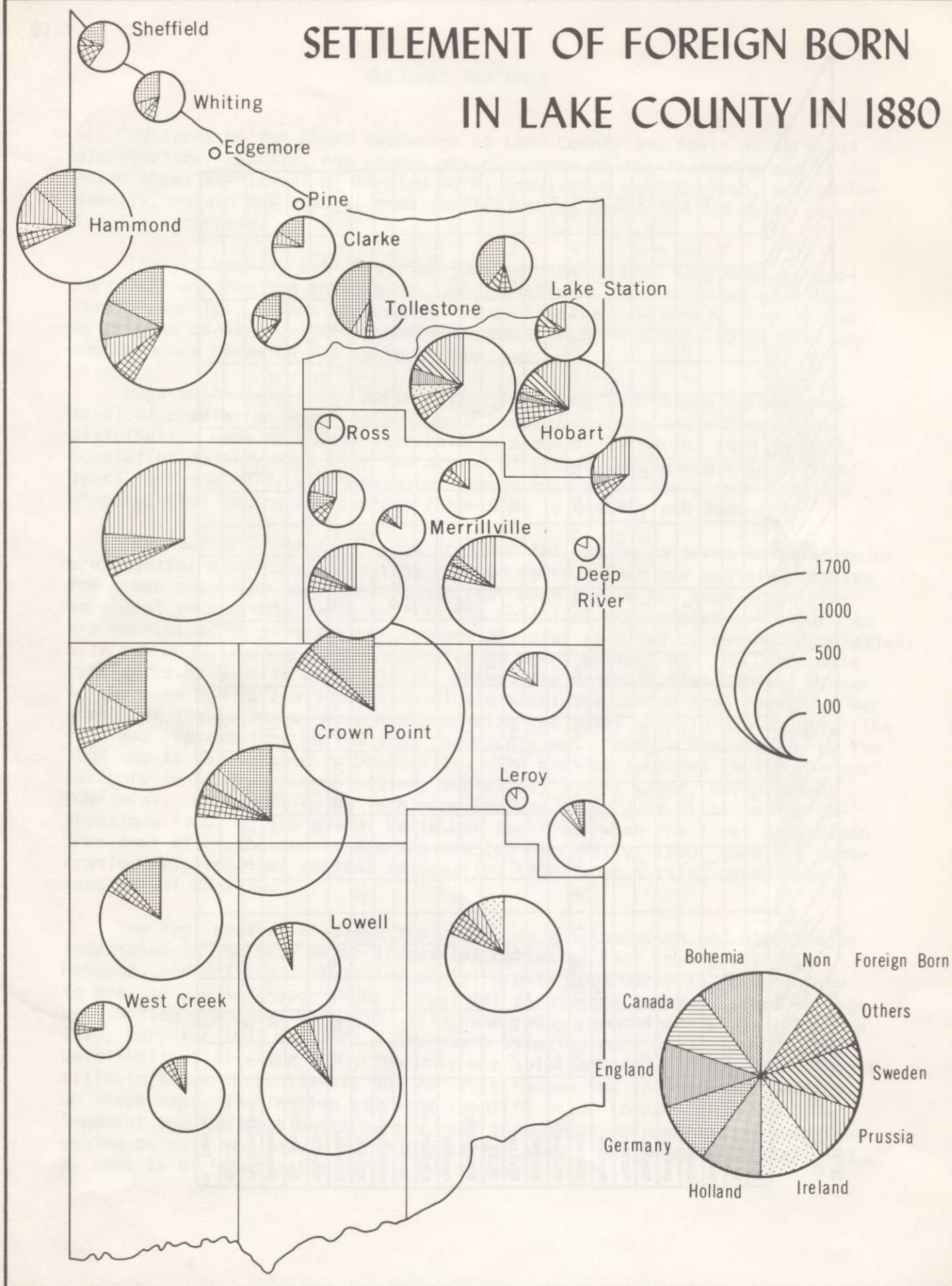
The next group of maps shows presidential voting patterns in seven major presidential elections during the last 60 years. Each map contains circles for urban areas and for rural townships. Each circle has been drawn proportional to the total vote cast in the political subdivision. The circles are subdivided to show the percentages of votes received by various candidates, with the Republican candidates denoted by a dot pattern and the Democratic candidates by a white area. In all cases, the national presidential winner is shown on the left side of each circle counterclockwise from the top. Bar graphs at the bottom of each map summarize the total vote in the county. The 1908 map represents a period when the county was strongly Republican; by the 1932 map it had changed to Democratic. The parties included in the "others" category in 1932 were Prohibition, Socialist, Social Labor, National and Communist. Other voting pattern maps include 1928, just prior to the depression; 1940, at the eve of World War II; 1952, when the first Republican president since the depression was elected nationally; 1960, when the Democratic Party regained control nationally; 1968, when a third party made a substantial showing.

The last section displays the growth of manufacturing and other major industries in the four major industrial cities of East Chicago, Gary, Hammond, and Whiting. Their industrial growth from early in this century to present day is shown; major industrial plants are located. East Chicago and Whiting are shown for 1915, 1930, and 1968; Hammond for 1915, 1930, and 1970; Gary for 1945 and 1968. The years selected were based upon source data availability. In 1915, the only mappable industry in Gary was Carnegie-Illinois Steel (U.S. Steel), and for this reason the 1915 map was omitted. On these maps, distinctive patterns identify major industrial types (see legends) and the same patterns are used throughout the series. A numbering system on each map labels major industrial plants and these are identified by name in alphabetical order in the legend.

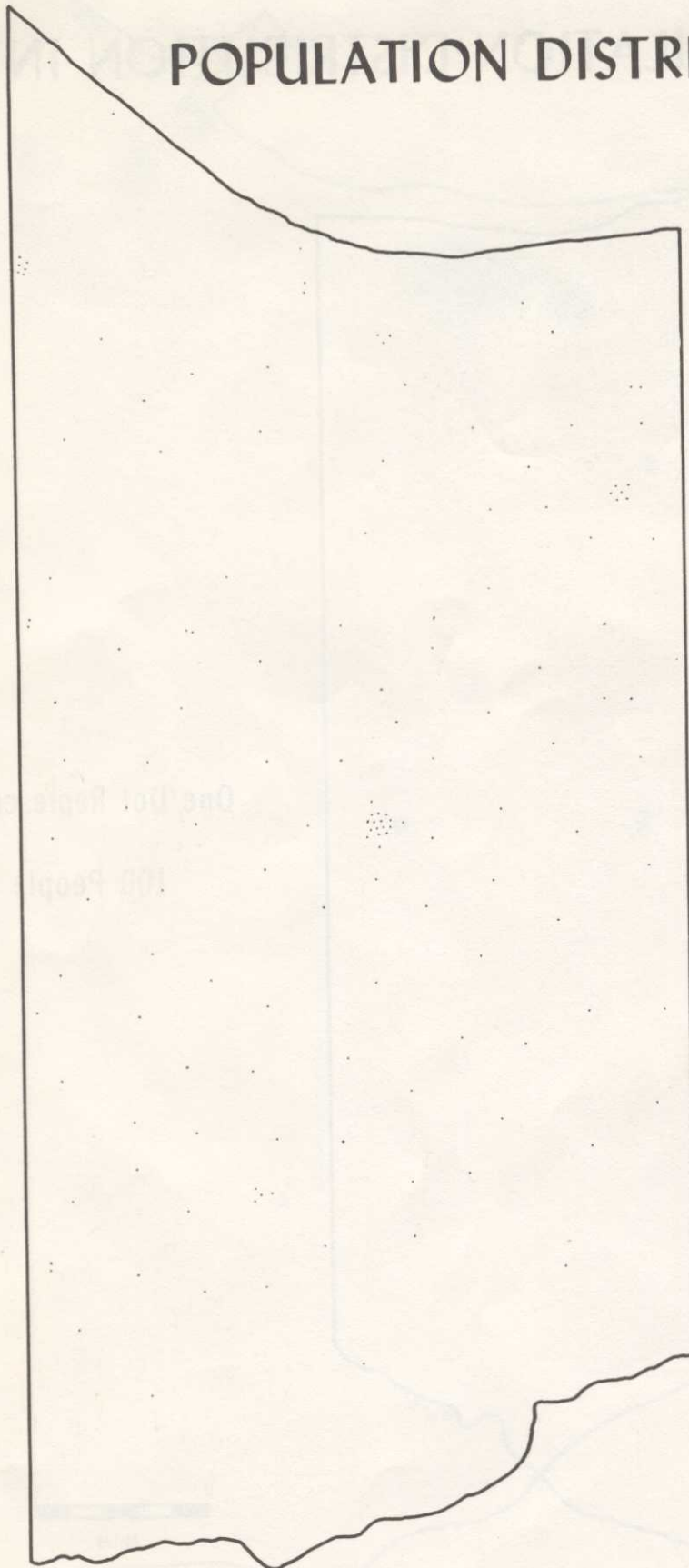
SETTLEMENT OF FOREIGN BORN
IN LAKE COUNTY IN 1880

SETTLEMENT OF FOREIGN BORN IN LAKE COUNTY IN 1880	North Twp.	Hammond	Tollestone	Clarke	Pine	Edgemoor	Whiting	Sheffield	Hobart Twp.	Lake Station	Hobart	St. Johns Twp.	Ross Twp.	Ross	Deep River	Merriville	Hanover Twp.	Center Twp.	Crown Point	Winfield Twp.	Leroy	West Creek Twp.	West Creek	Cedar Creek Twp.	Lowell	Eagle Creek Twp.	TOTAL
Austria								5		2	1							1	1							10	
Belgium									1																	1	
Bohemia		6	1			1											31	8					2			49	
Canada	7	7		1				11	2	11		24		1	3		10	19	5	3	9	2	3	10	15	143	
Denmark		1						1	2									1				2		1		8	
England	20	3				3	1	58	2	22	10	25	3	1	1	1	4	17	1			8	4	5		189	
Europe																23	6	1								30	
France	1	10	2					4		5							3	3			3		2	1		35	
Germany	228	86	123	31	2	1	35	21	14	8	22	98	50	5	1	165	133	221	38		112	33	43	8	8	1486	
Holland	95	11						5				1					1			1						114	
Hungary																		1								1	
Ireland	15	25		2		5	2	3	30	3	12	9	17			3	25	5	29	2	5		9	3	37	241	
Italy		7										1						6								14	
Luxemburg								1		3	1					2	6									13	
Mexico							1																			1	
Netherlands	7																									7	
Norway							2	2		1						1	1					5				12	
Nova Scotia	2																									2	
Poland	1	2			1											5	1				1					11	
Prussia	76	85	28	16	3		10		138	26	62	305	204	5	12		124	51	2	1	11		6	49	5	26	1295
Scotland	1	1					1	11		3		1					4	3	2		12				1	40	
So. America												1					2									3	
Sweeden	16	7	1		4		2	5	57	11	43	3		1							12	1	2		4	169	
Switzerland	3	2				1	3				3	1				2	2	3			1		1			22	
Wales								1		2																3	
W. Indies		1																								1	

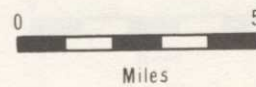
SETTLEMENT OF FOREIGN BORN IN LAKE COUNTY IN 1880



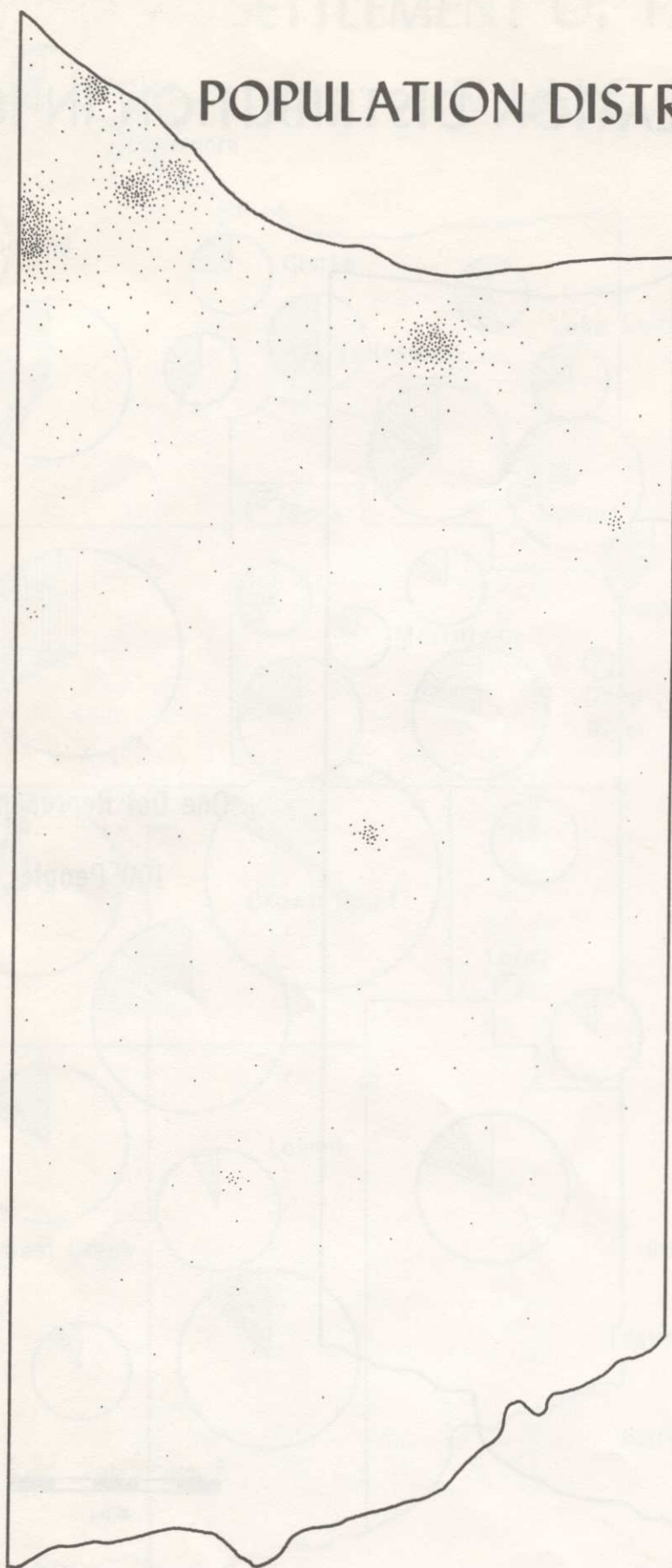
POPULATION DISTRIBUTION IN 1880



One Dot Represents
100 People



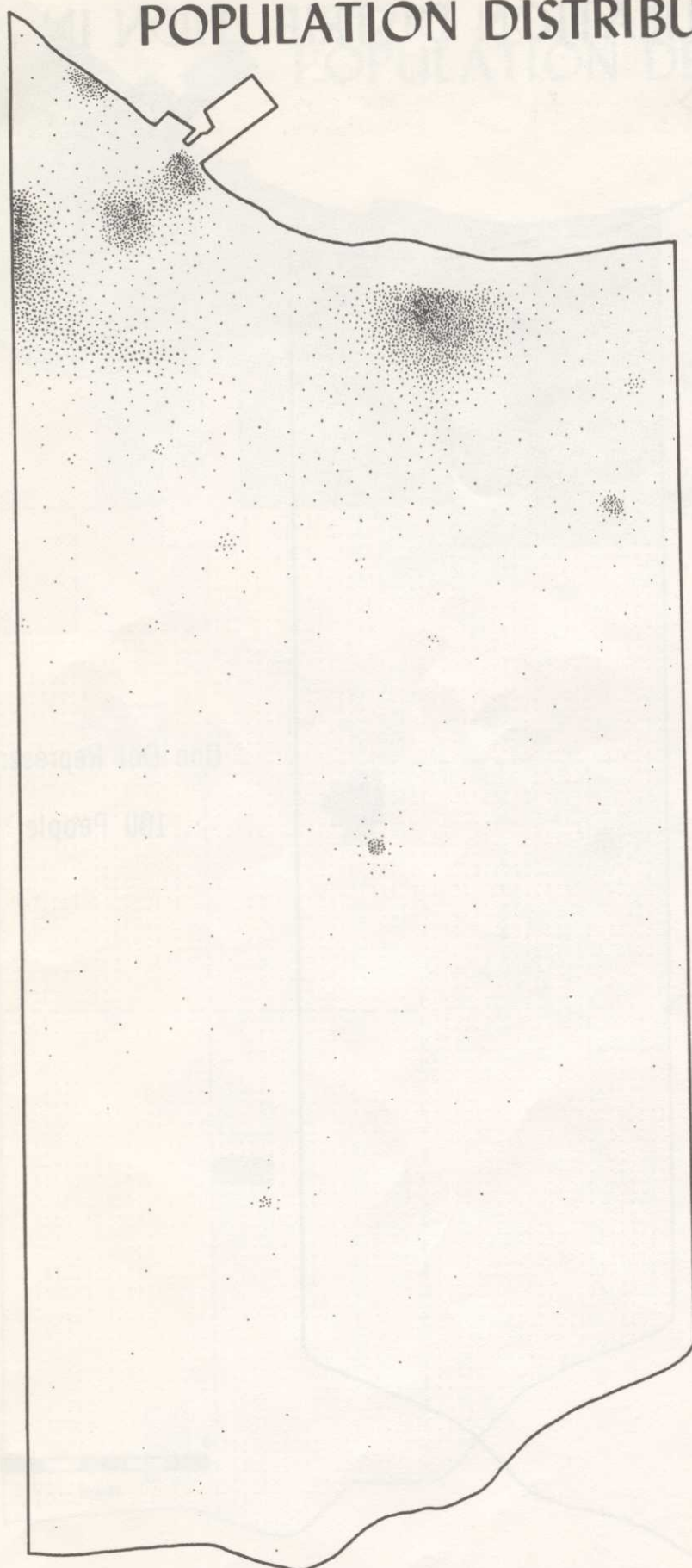
POPULATION DISTRIBUTION IN 1910



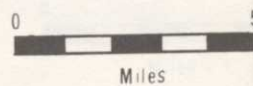
One Dot Represents
100 People

0 5
Miles

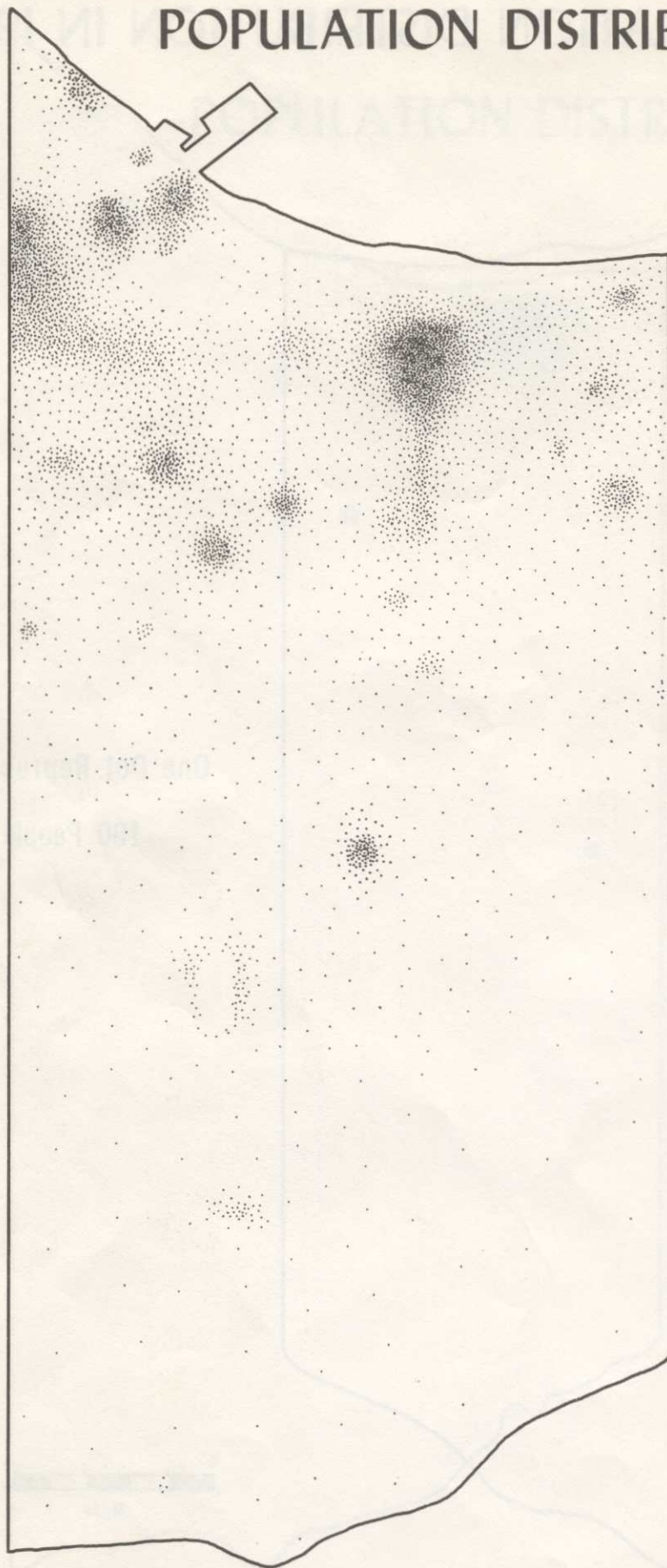
POPULATION DISTRIBUTION IN 1940



One Dot Represents
100 People



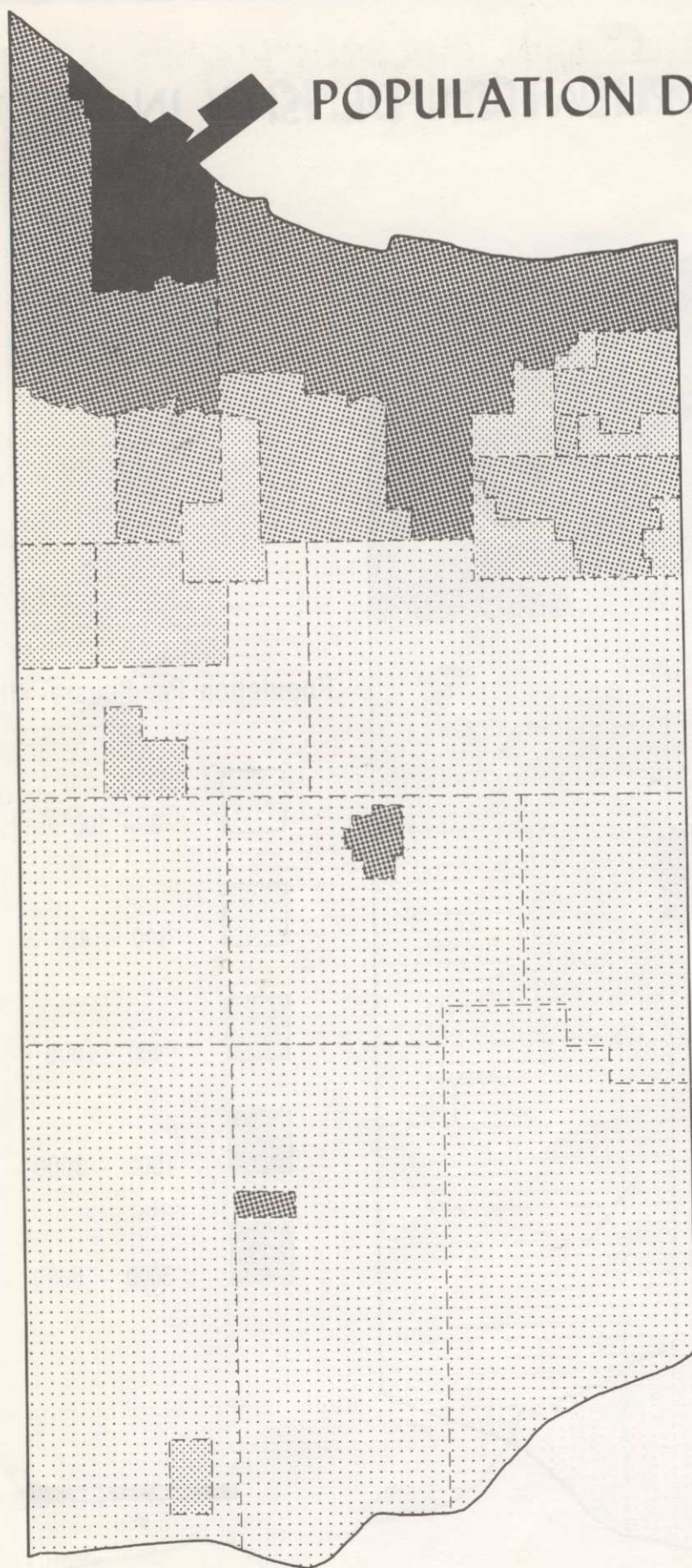
POPULATION DISTRIBUTION IN 1970



One Dot Represents
100 People

0 5
Miles

POPULATION DENSITY IN 1940



Population Per Square Mile



0 - 100



100 - 400



400 - 1000



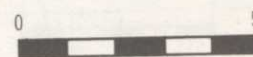
1000 - 3000



3000 - 5000

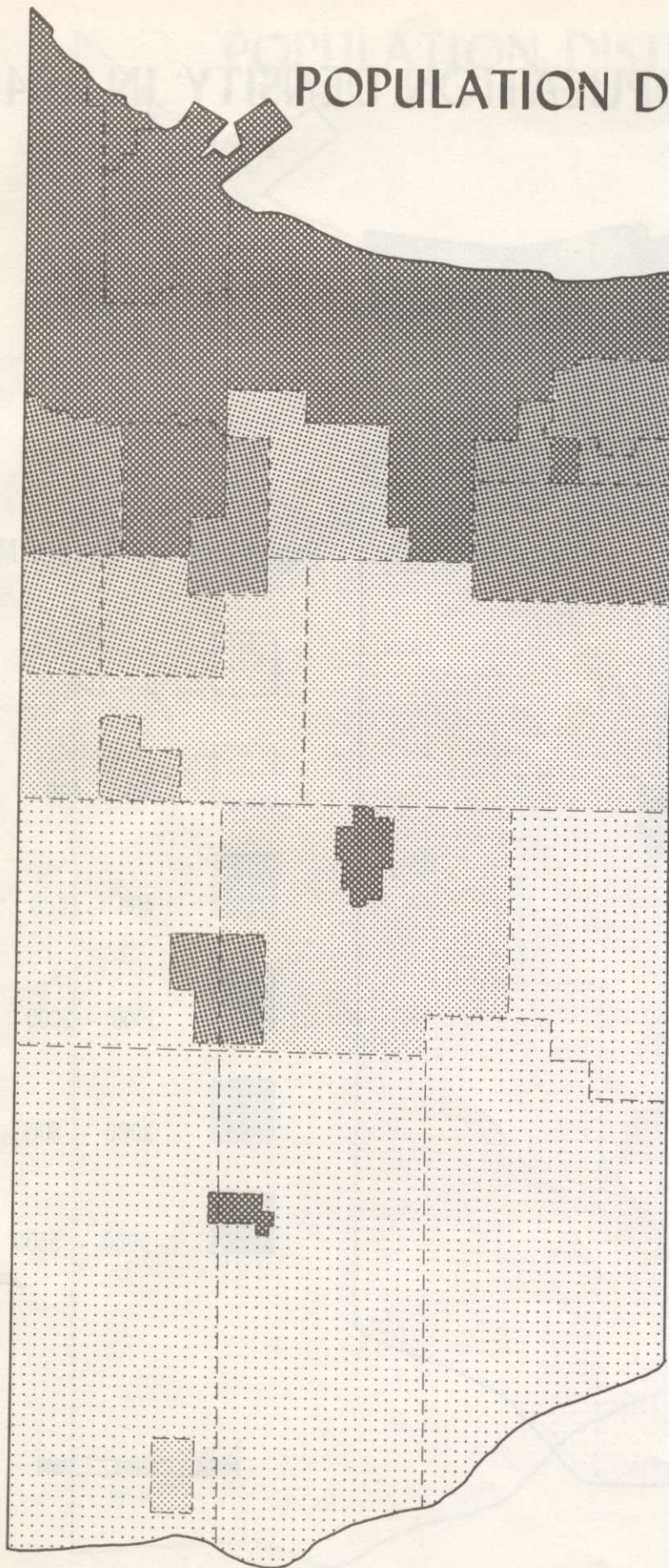


5000 - 5500



Miles

POPULATION DENSITY IN 1970



Population Per Square Mile



0 - 100



100 - 400



400 - 1000



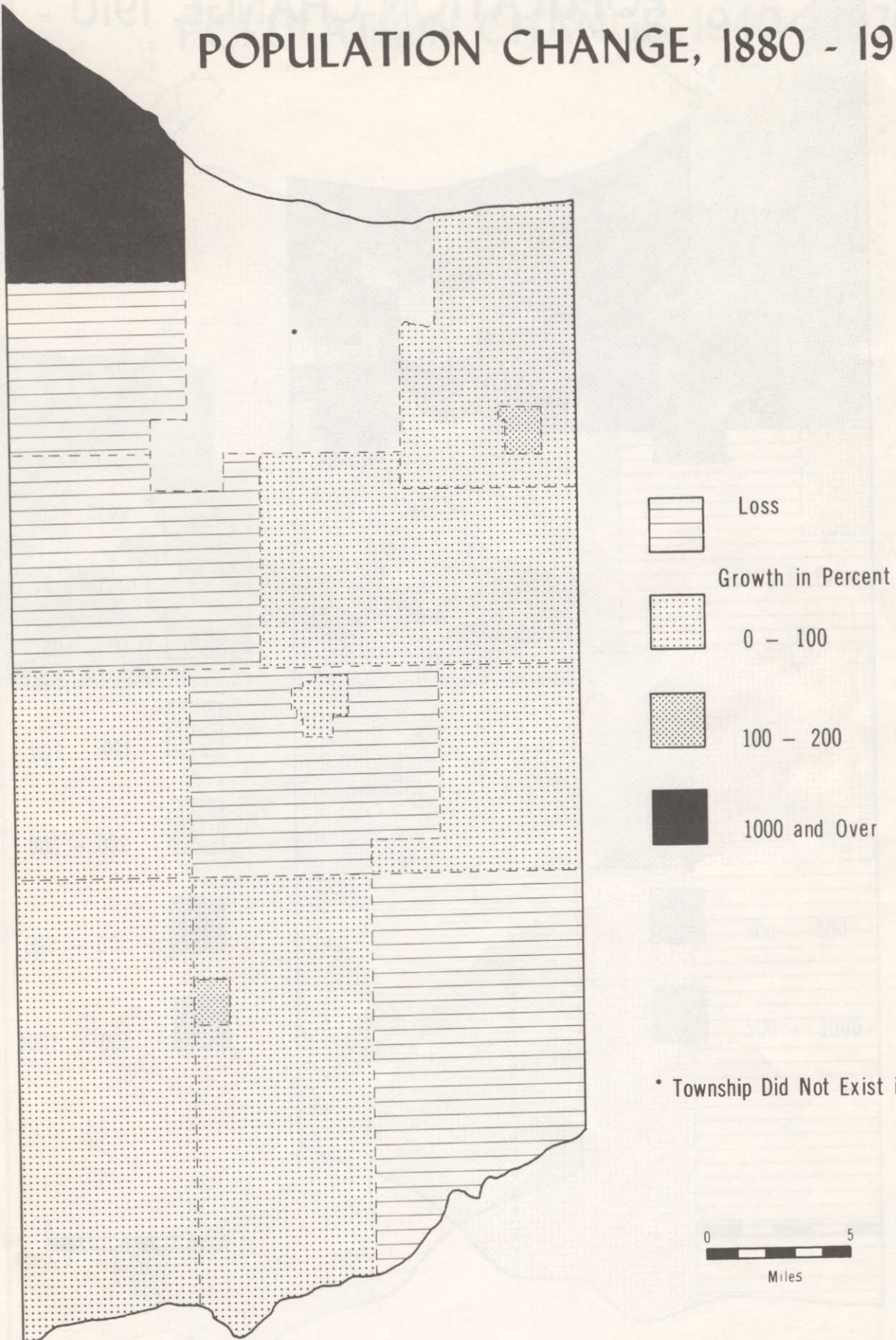
1000 - 3000



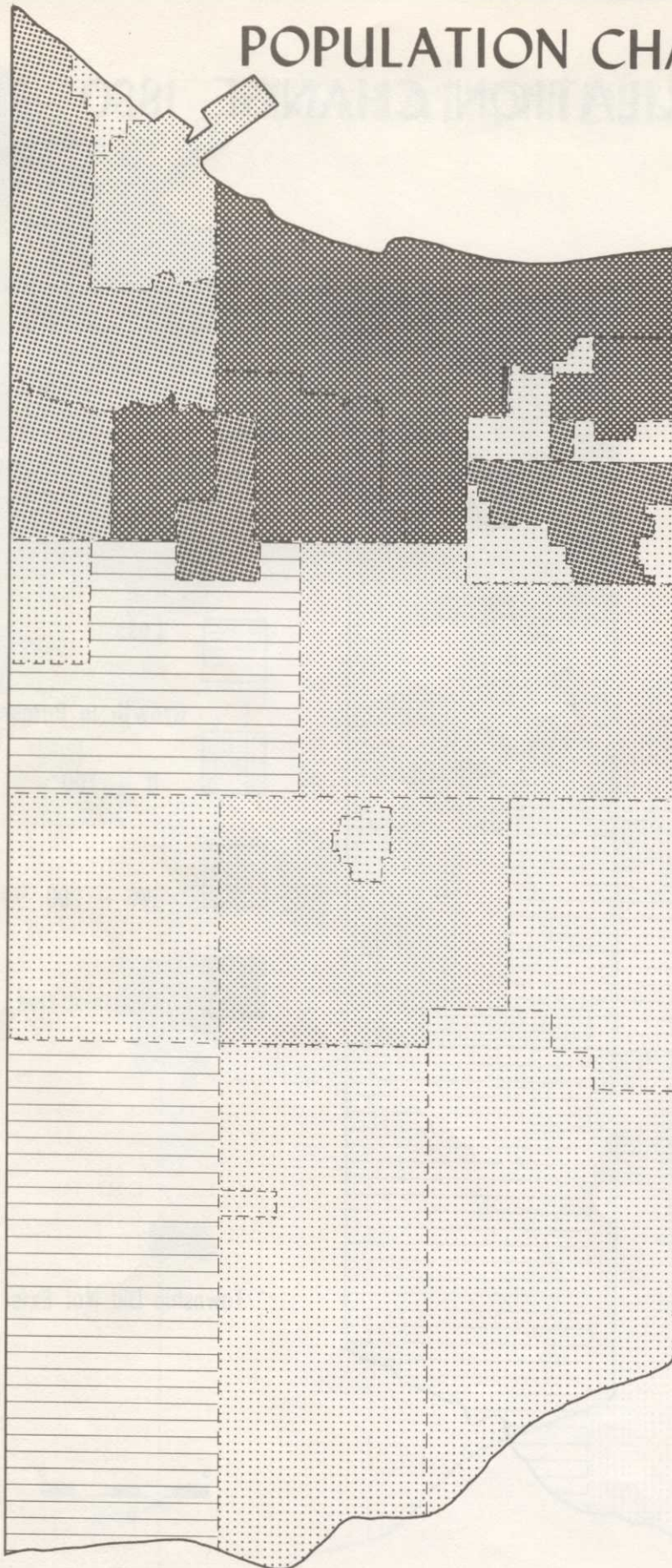
3000 - 5000

0 5
Miles

POPULATION CHANGE, 1880 - 1910



POPULATION CHANGE, 1910 - 1940



Loss

Growth in Percent



0 - 100



100 - 200



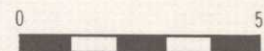
200 - 300



300 - 500

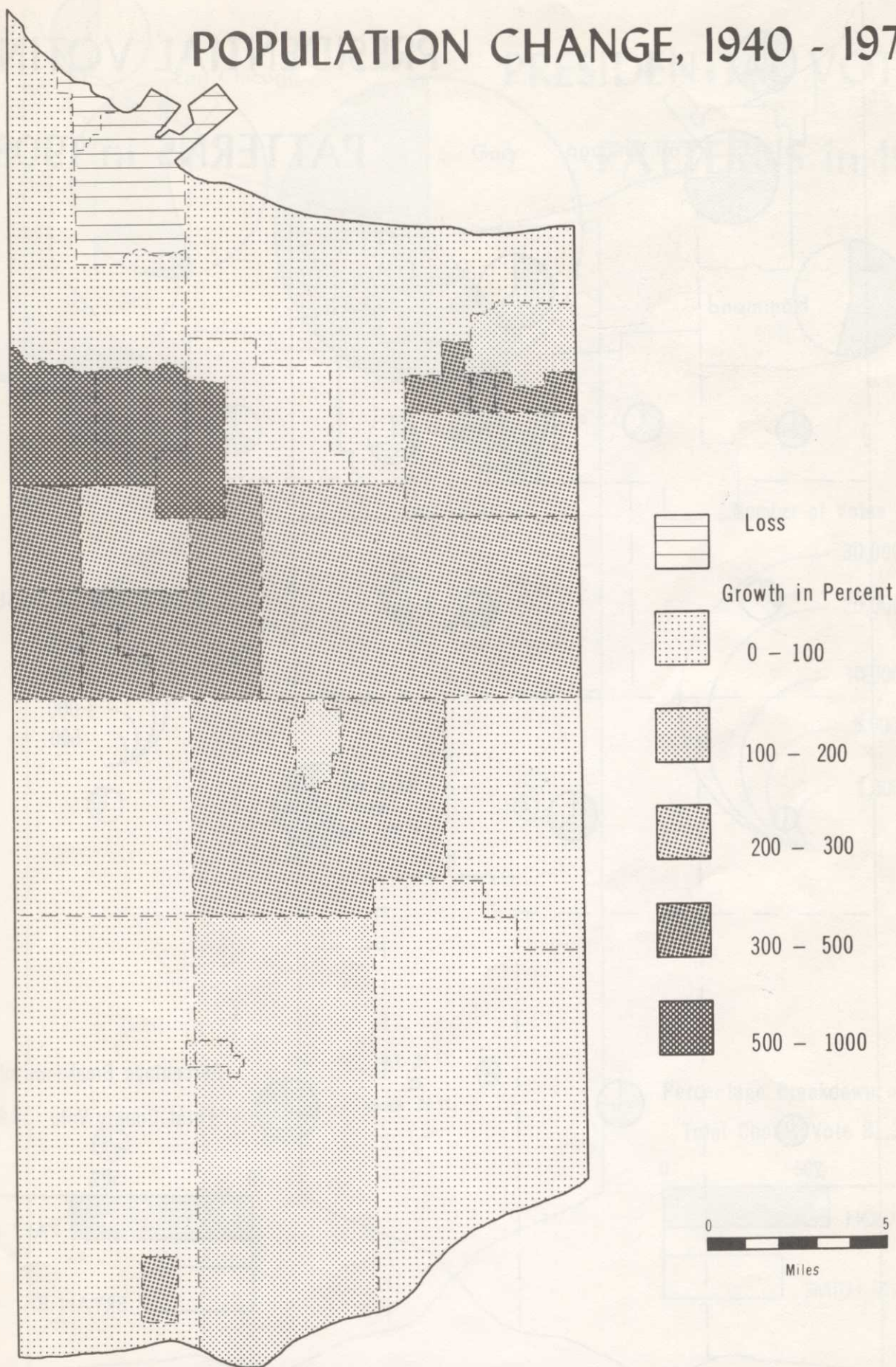


500 - 1000



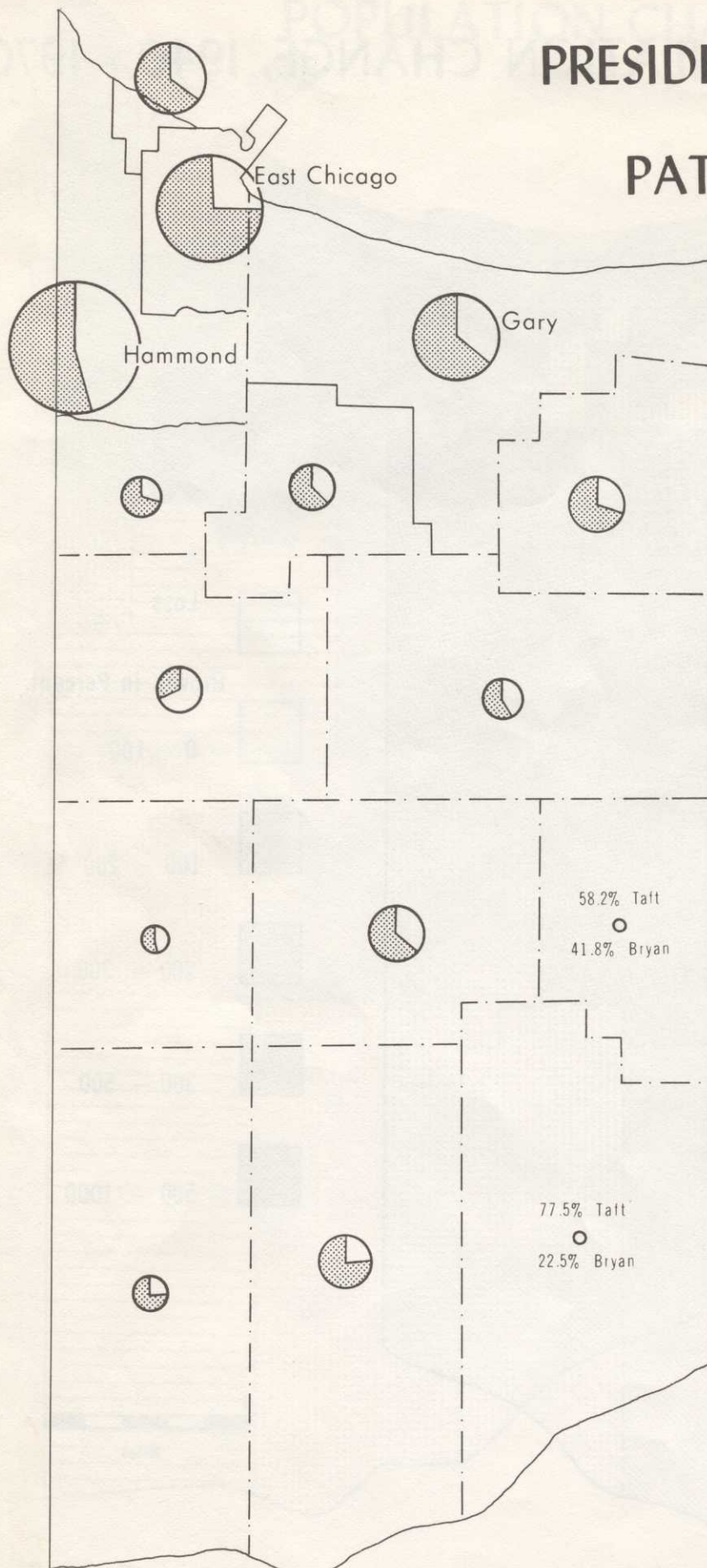
Miles

POPULATION CHANGE, 1940 - 1970

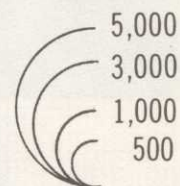


PRESIDENTIAL VOTING

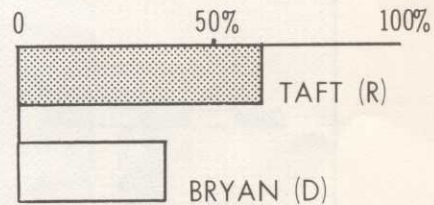
PATTERNS in 1908



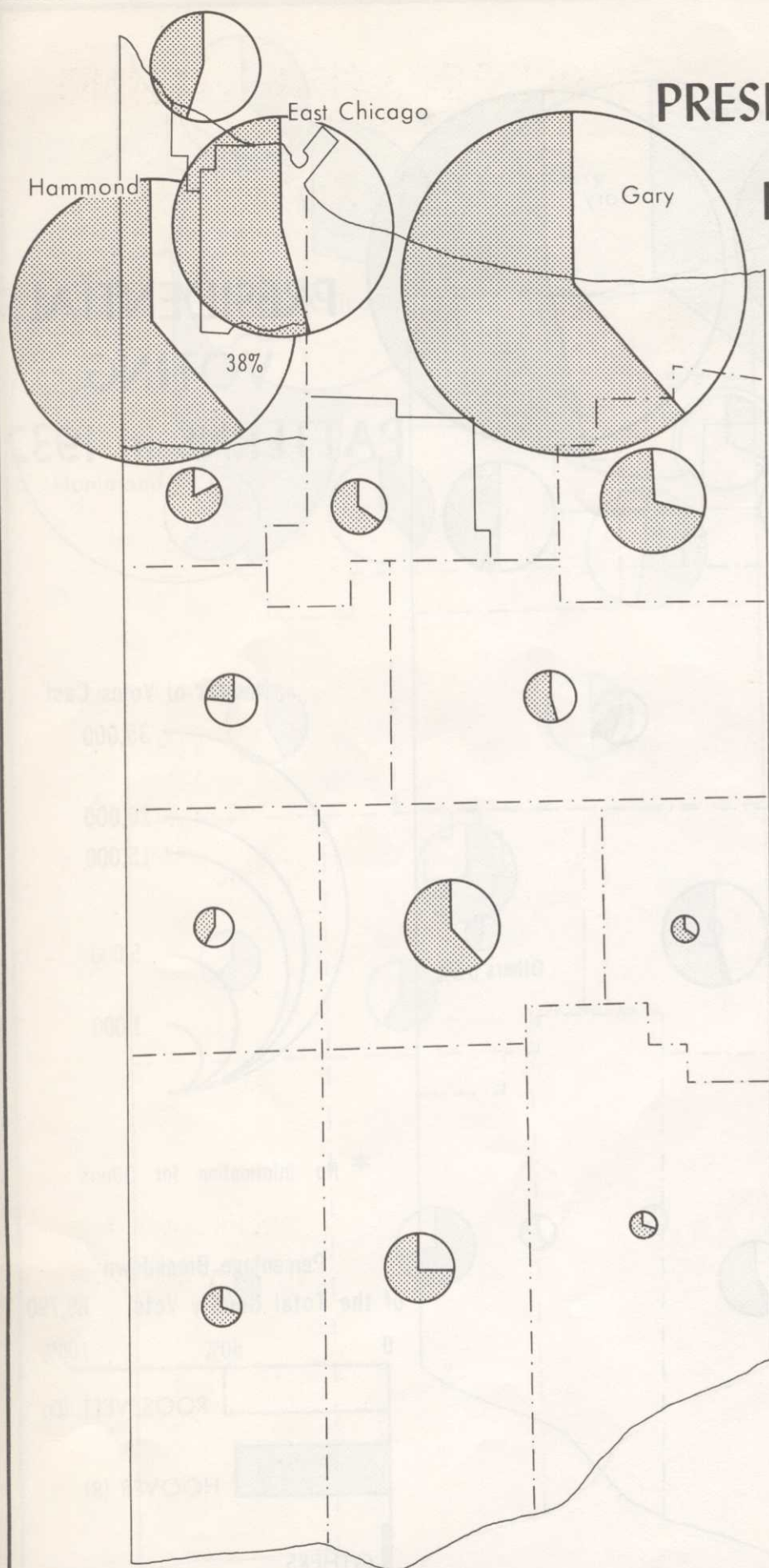
Number of Votes Cast



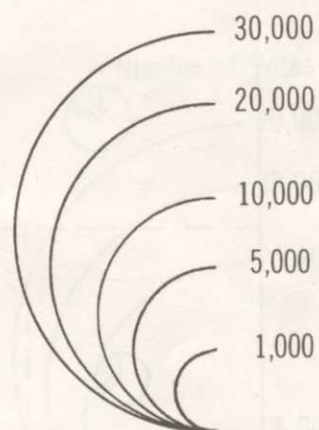
Percentage Breakdown of the
Total County Vote 14,890



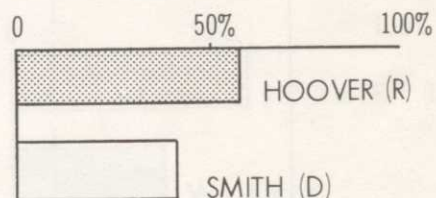
PRESIDENTIAL VOTING PATTERNS in 1928

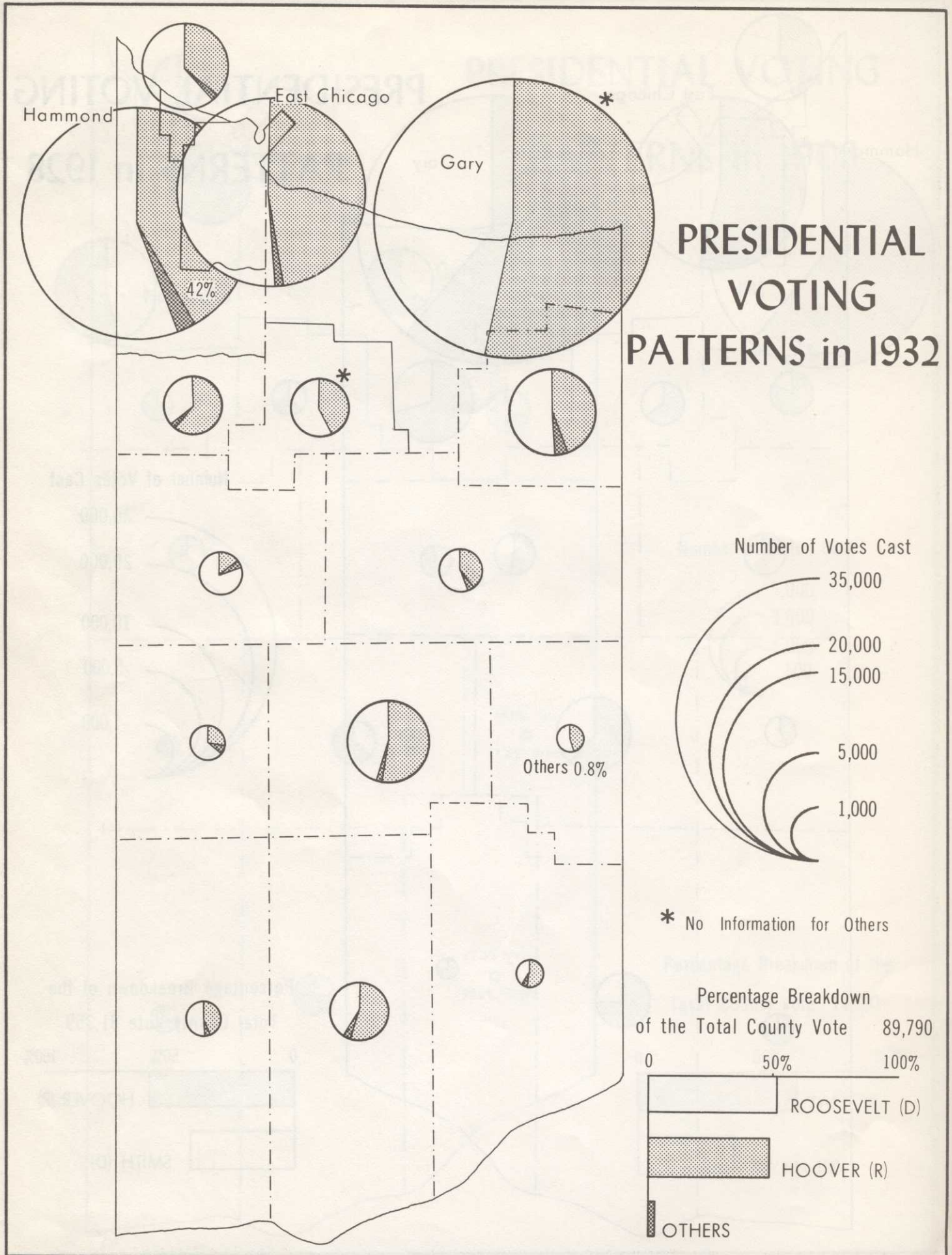


Number of Votes Cast

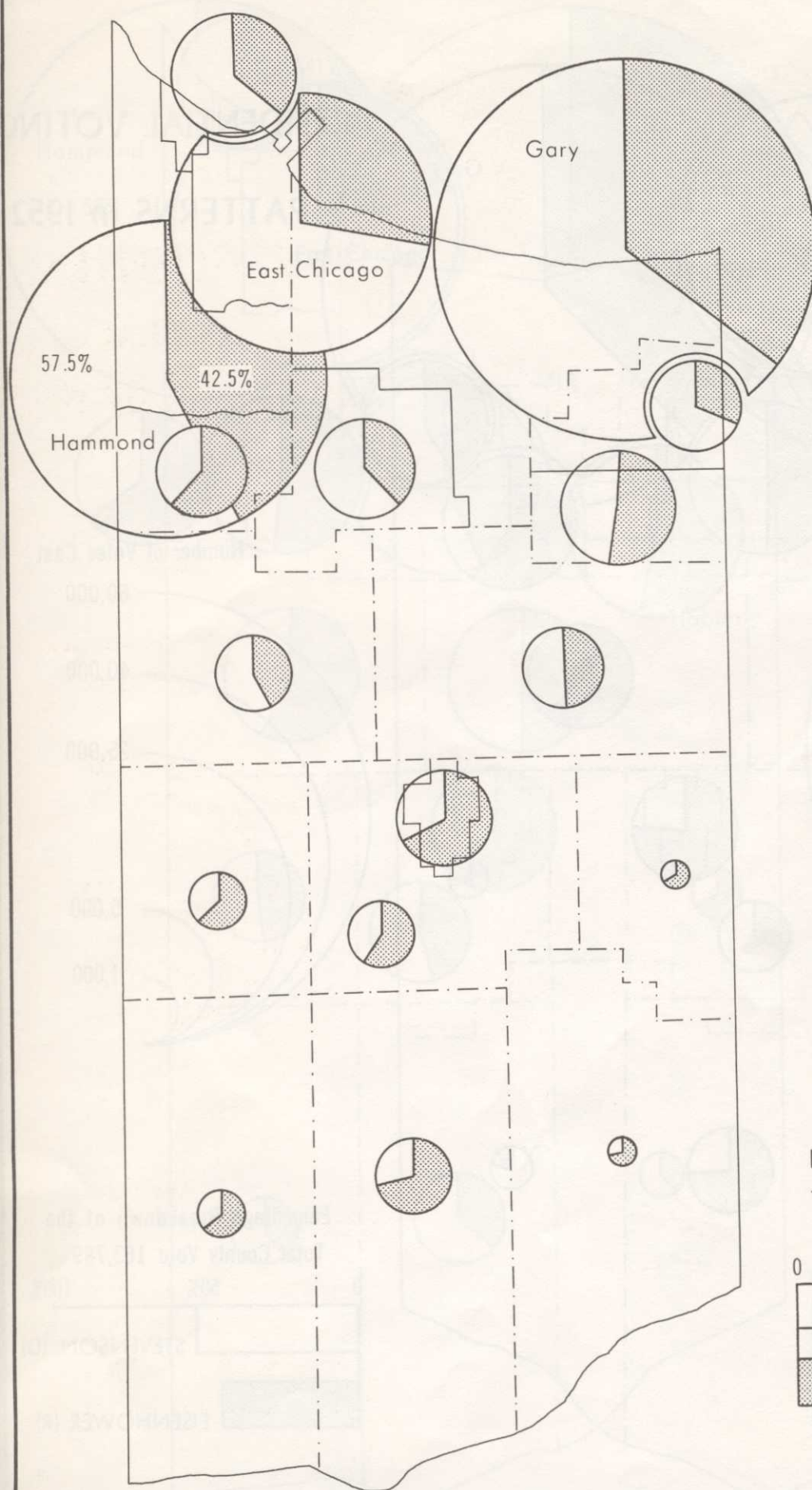


Percentage Breakdown of the
Total County Vote 81,359

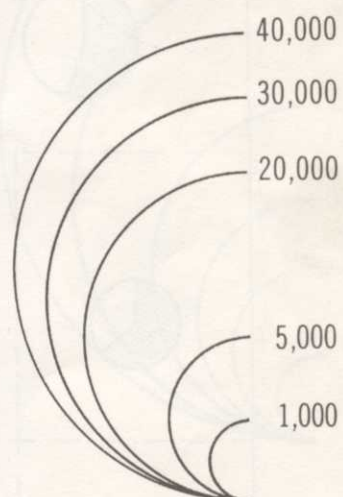




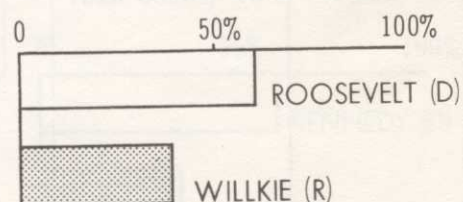
PRESIDENTIAL VOTING PATTERNS in 1940



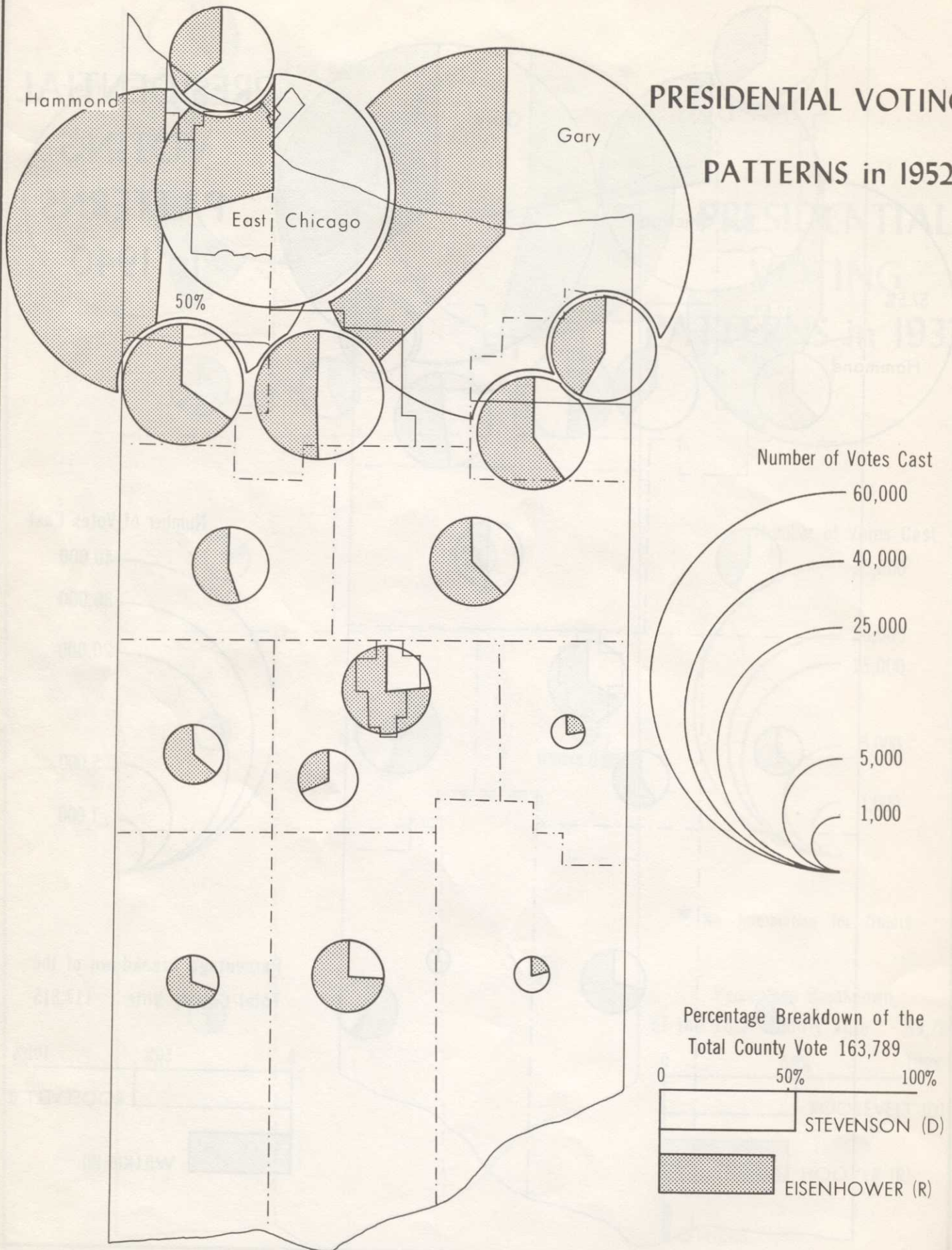
Number of Votes Cast



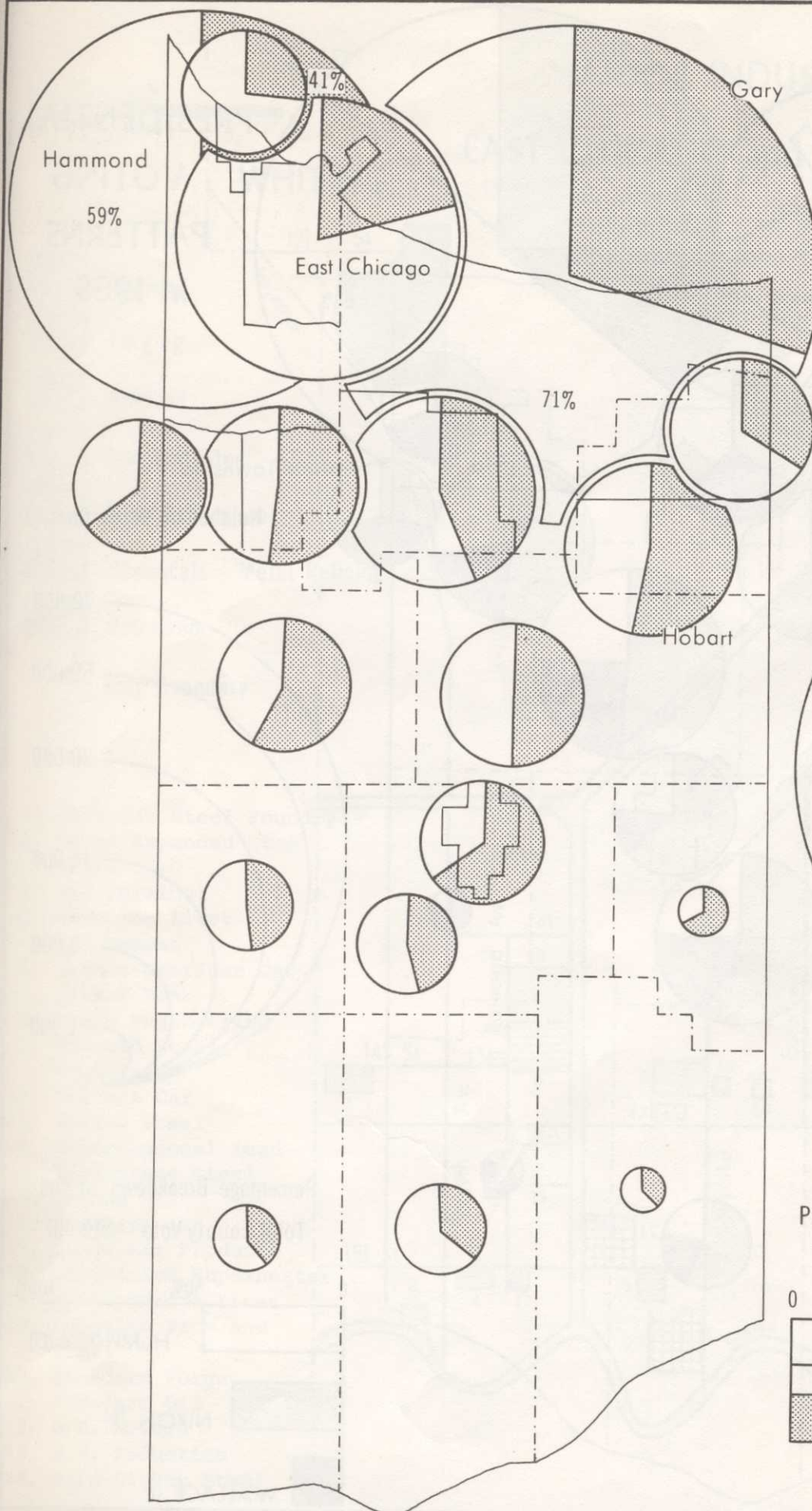
Percentage Breakdown of the
Total County Vote 117,815



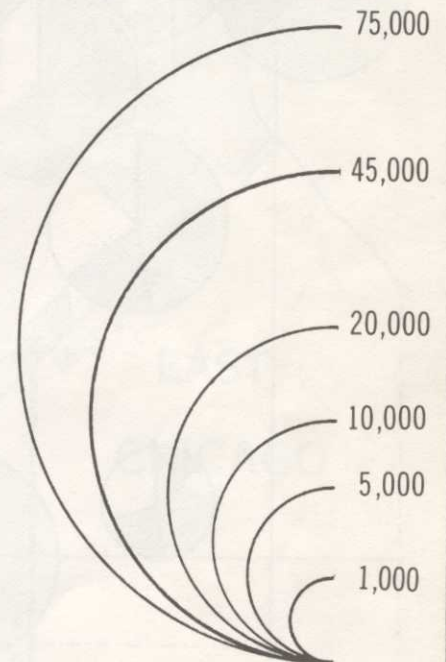
PRESIDENTIAL VOTING PATTERNS in 1952



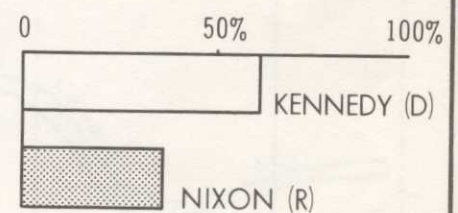
PRESIDENTIAL VOTING PATTERNS in 1960



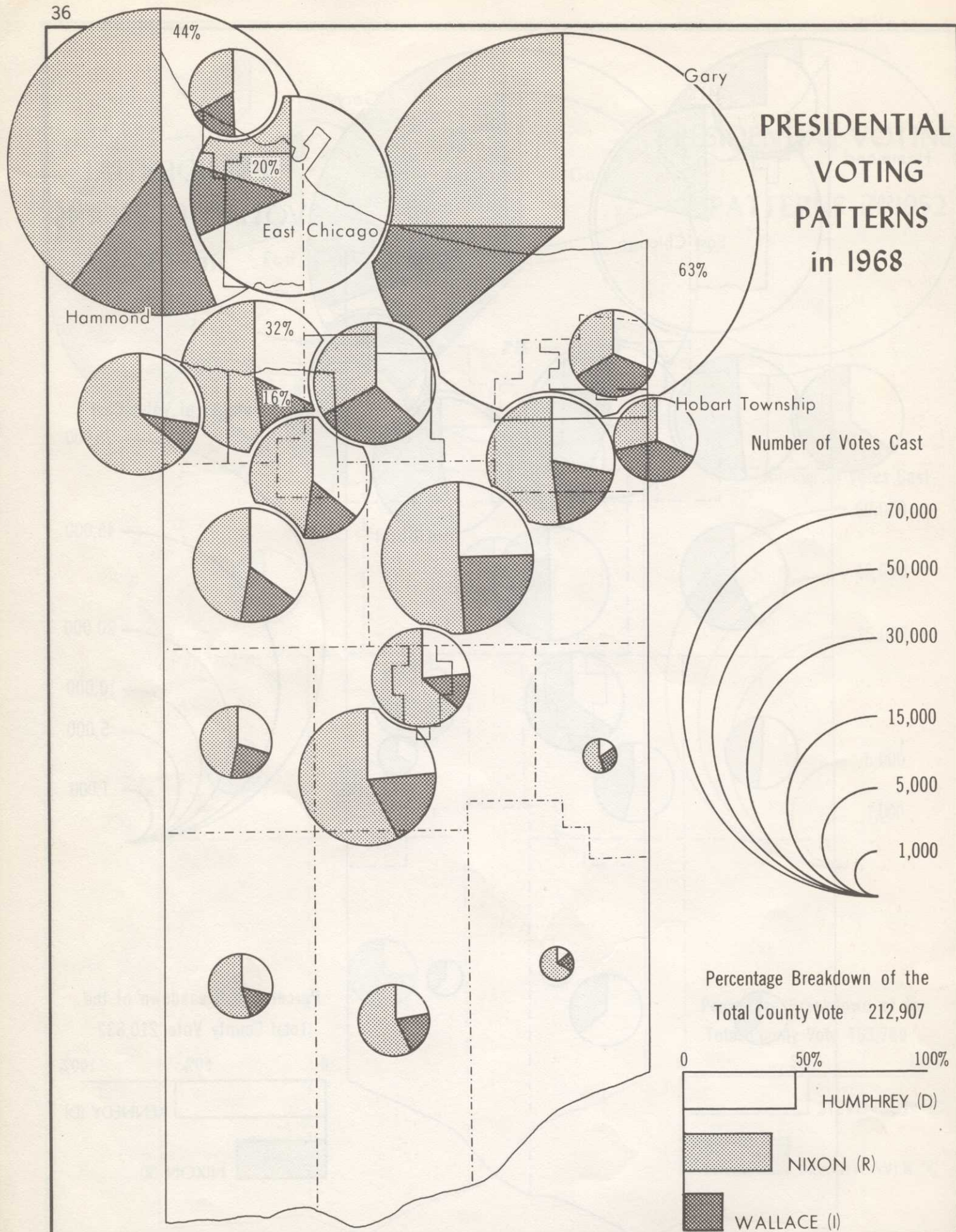
Number of Votes Cast



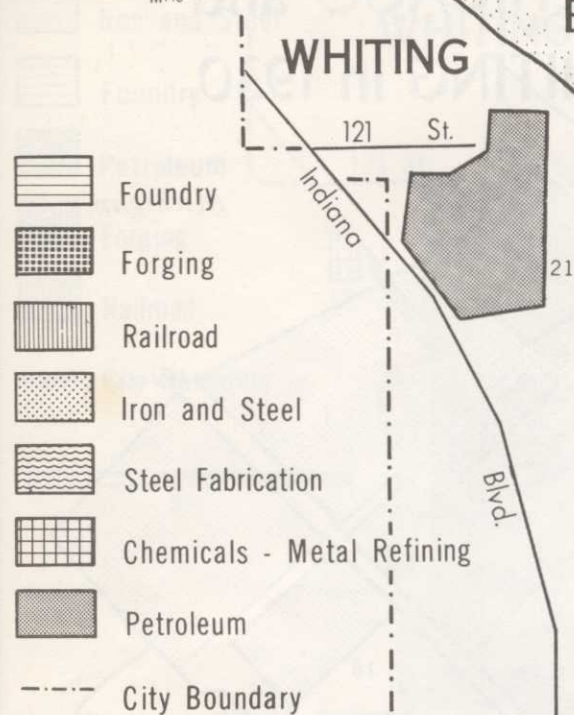
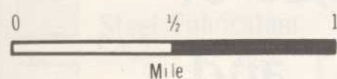
Percentage Breakdown of the
Total County Vote 210,832



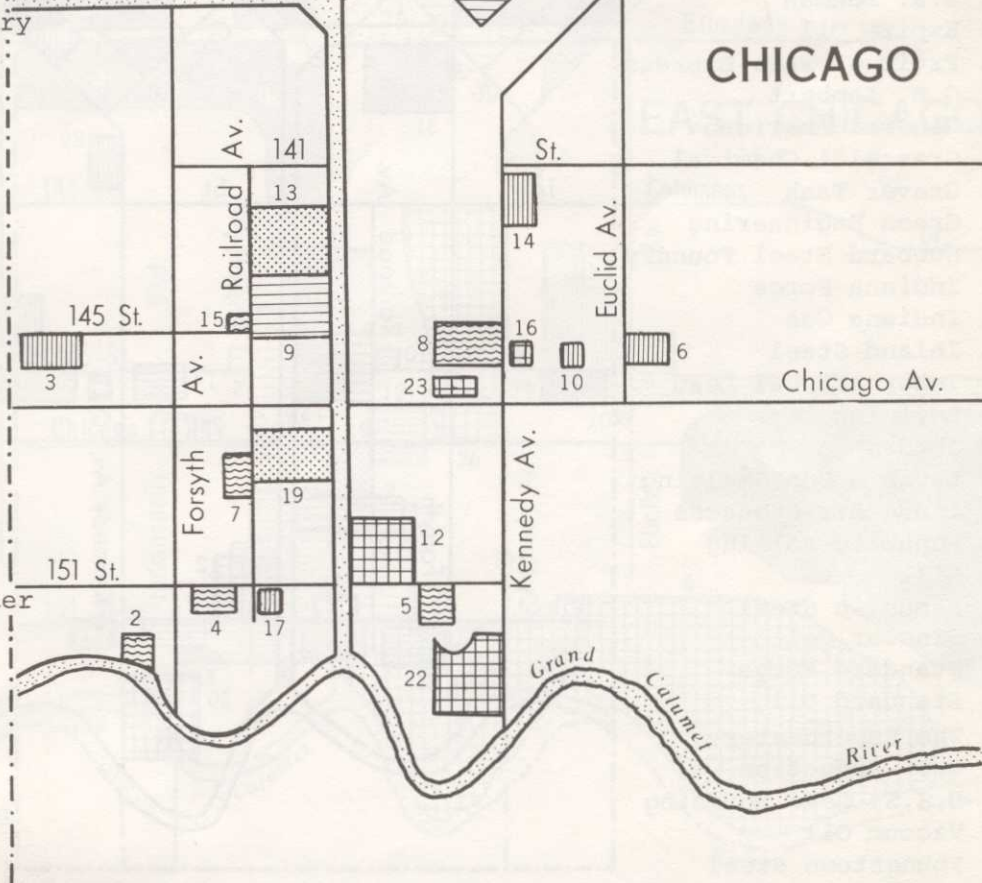
PRESIDENTIAL VOTING PATTERNS in 1968



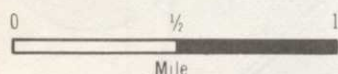
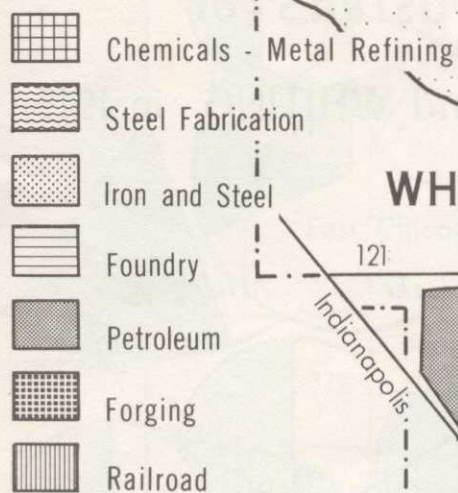
MAJOR INDUSTRIES of EAST CHICAGO and WHITING in 1915



1. American Steel Foundry
2. Bates Expanded Steel Trust
3. B&O Terminal
4. Champion Rivet
5. E.B. Lanman
6. German-American Car
7. Graver Tank
8. Green Engineering
9. Hubbard Steel Foundry
10. Indiana Car
11. Inland Steel
12. International Lead
13. Interstate Steel
14. Jordan
15. Limbert
16. Linde Air Products
17. Locomotive Superheater
18. Pennsylvania Lines
19. Republic Iron and Steel
20. Standard Forge
21. Standard Oil
22. U.S. Metals
23. U.S. Reduction
24. Ward-Dickey Steel

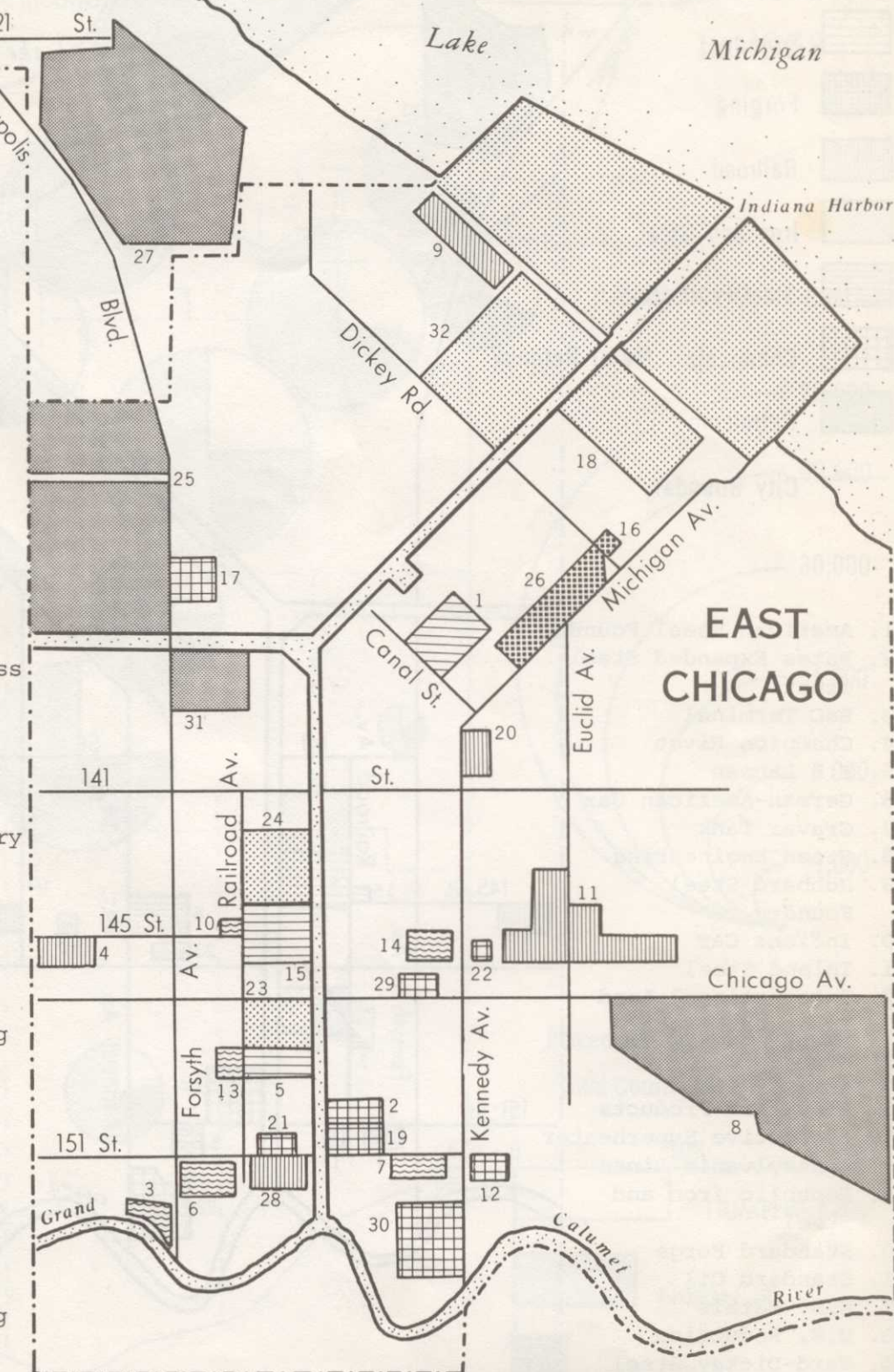


MAJOR INDUSTRIES of EAST CHICAGO and WHITING in 1930

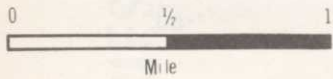
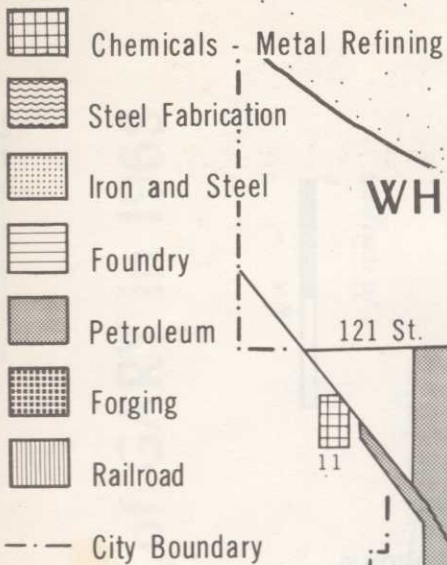


1. American Steel
2. Anaconda Lead
3. Bates Expanded Steel Trust
4. B&O Terminal
5. Calumet Foundry
6. Champion Rivet
7. E.B. Lanman
8. Empire Oil
9. Fruit Growers Express
10. G.B. Lambert
11. General American
12. Grasselli Chemical
13. Graver Tank
14. Green Engineering
15. Hubbard Steel Foundry
16. Indiana Forge
17. Indiana Gas
18. Inland Steel
19. International Lead Refining
20. Jordan
21. Lavin & Son Smelting
22. Linde Air Products
23. Republic Rolling Mill
24. Republic Steel
25. Sinclair Oil
26. Standard Forge
27. Standard Oil
28. The Superheater
29. U.S. Reduction
30. U.S.S. Lead Refining
31. Vaccum Oil
32. Youngstown Steel

WHITING



MAJOR INDUSTRIES of EAST CHICAGO and WHITING in 1968



1. American Steel Foundry
2. Blaw Knox
3. Champion Rivet
4. Cities Service Oil
5. Combustion Eng.
6. Du Pont
7. East Chicago Industrial Center
8. East Chicago Machine Tool
9. East Chicago Sheet Metal
10. Euclid Machine Tool
11. Federal Metals
12. Gannon Metal
13. General American
14. Indiana Forge
15. Inland Steel
16. Jordan
17. Lanman Bolt
18. M&T Chemicals
19. Mobil Oil
20. Redi-Bolt
21. Sinclair Oil
22. Standard Forge
23. Standard Oil
24. Union Carbide
25. Union Tank Car
26. U.S. Reduction
27. U.S.S. Lead Refining
28. Youngstown Sheet and Tube

WHITING

121 St.

Standard Av.

Lake

Michigan

Indiana Harbor

23

24

28

15

129 St.

Dickey

23

1

Canal St.

Broadway

EAST CHICAGO

Columbus

Dr.

141 St.

Blvd.

Railroad Av.

13

145 St.

Chicago Av.

2

12

24

10

Euclid

4

151 St.

Indianapolis

25

8

2

17

6

Grand

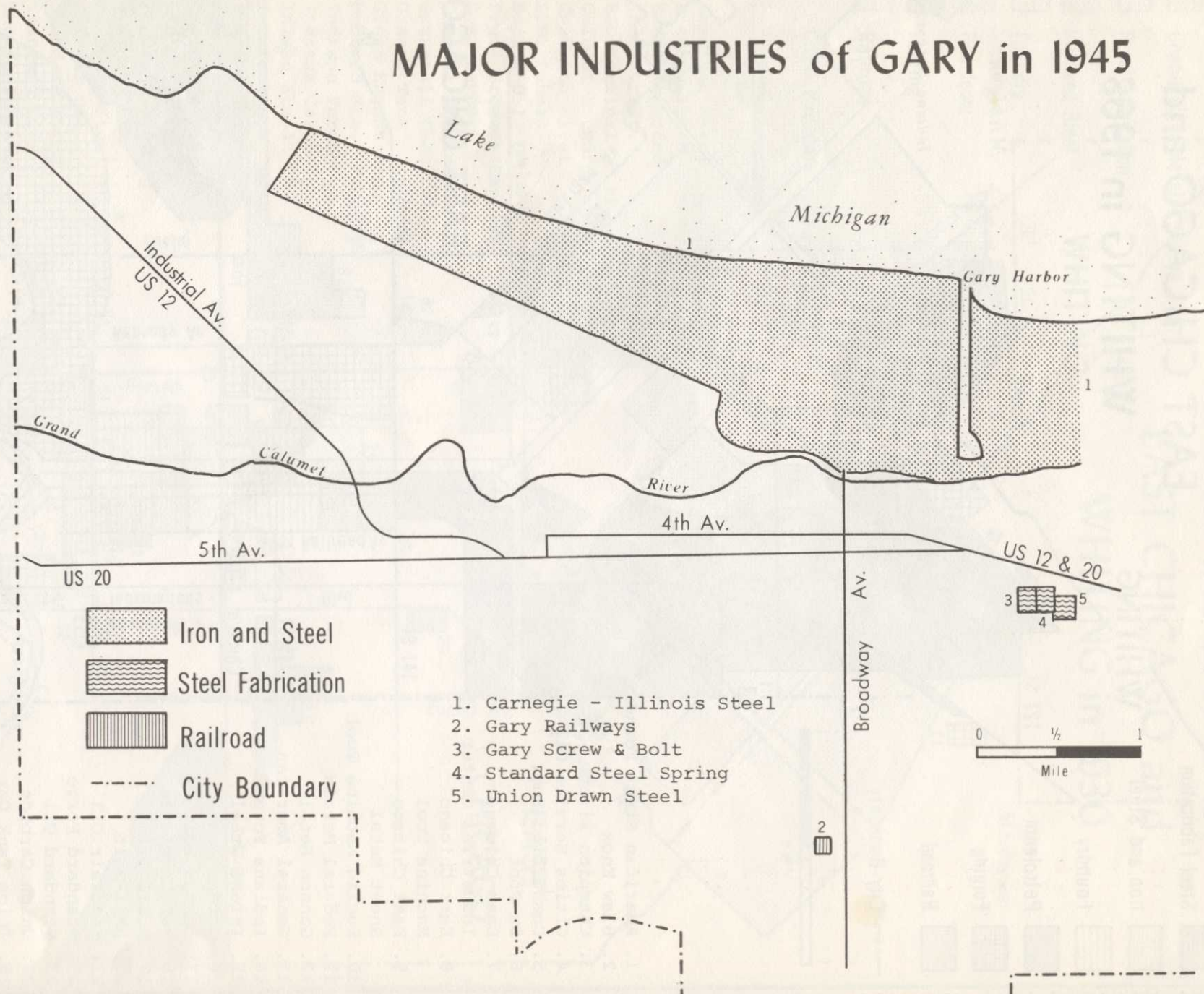
Calumet

18

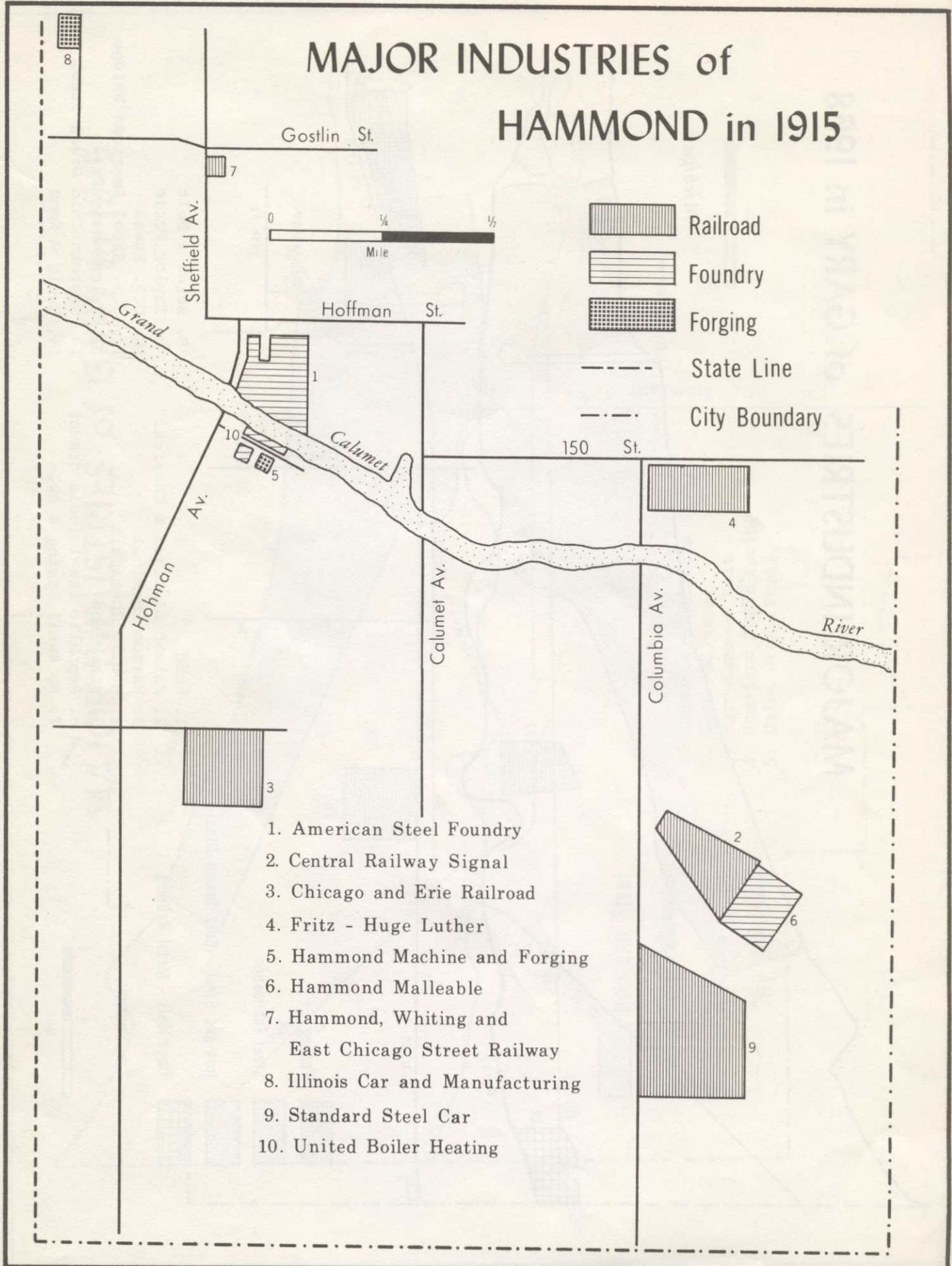
27

River

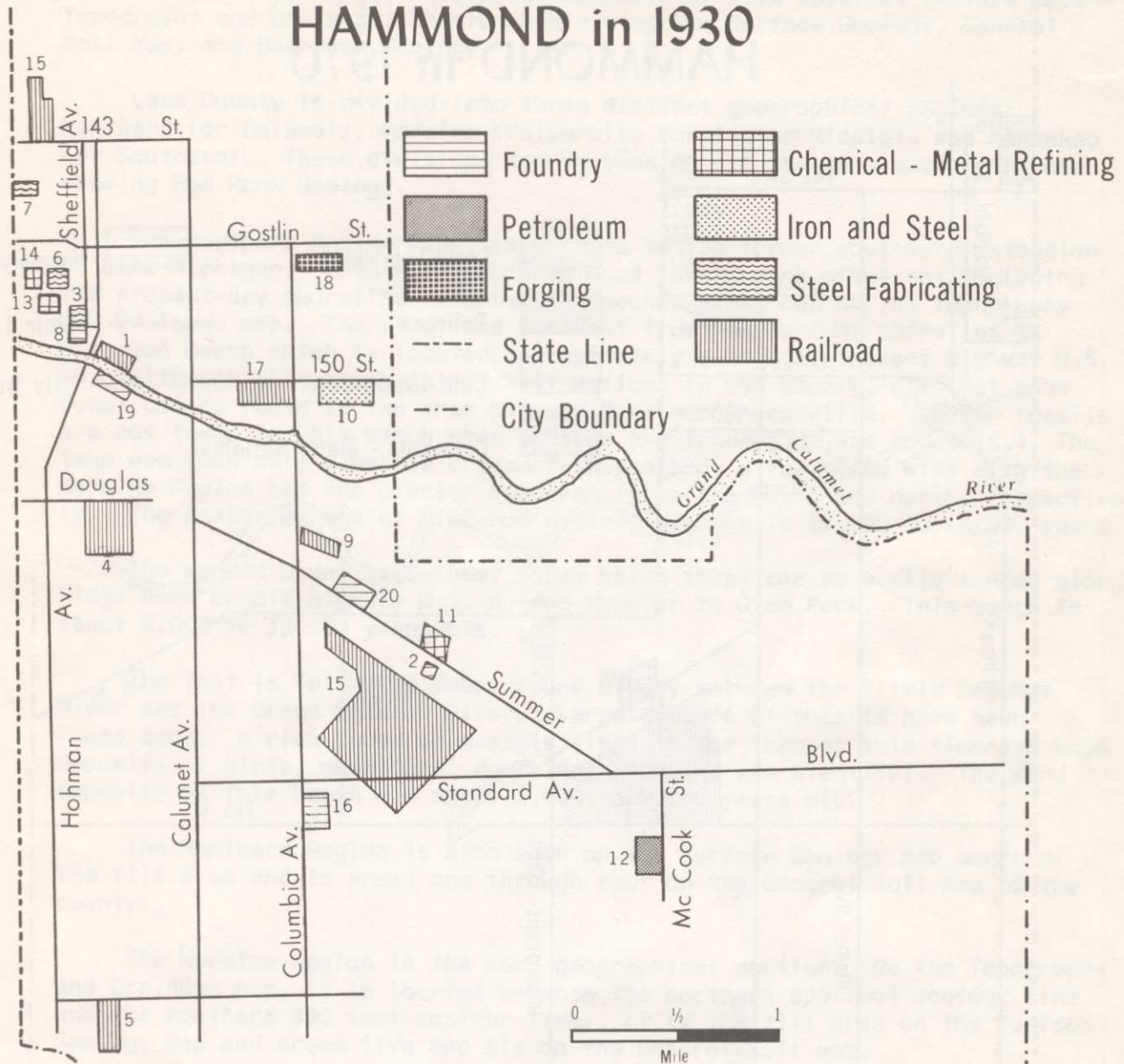
MAJOR INDUSTRIES of GARY in 1945



MAJOR INDUSTRIES of HAMMOND in 1915



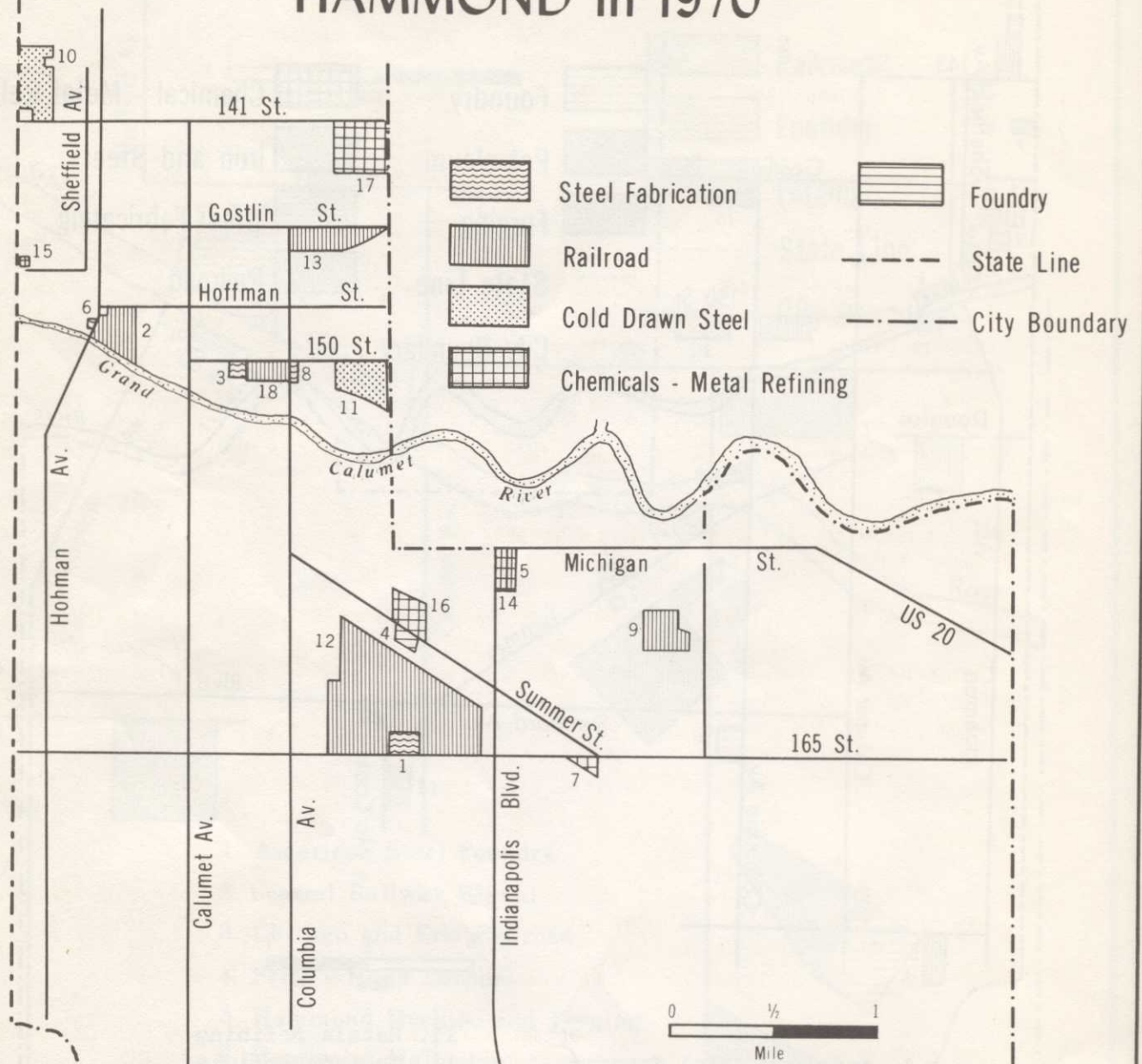
MAJOR INDUSTRIES of HAMMOND in 1930



1. American Steel Foundry
2. Calumet Electric Casteel
3. Champion
4. Chicago & Erie Railroad
5. C.I.L. Railroad
6. Enterprise Bed
7. Hammond Bolt & Nut
8. Hammond Foundry
9. Indiana Harbor Belt
10. La Salle Steel

11. Metals Refining
12. Osborne Refininf
13. Page & Jones Chemical
14. Prest-o-Lite
15. Standard Steel Car
16. Southern Weel
17. The Camel
18. Union Metal Products and Forging
19. United Boiler Heating
20. Wanner Malleable Casting

MAJOR INDUSTRIES of HAMMOND in 1970



PHYSICAL FEATURES

The last section of this atlas consists of five physical feature maps--Topography and Drainage, Physiographic Diagram, Surface Geology, General Soil Map, and Bed Rock Geology.

Lake County is divided into three distinct geographical regions: Northern (or Calumet), Moraine (Valparaiso Moraine or Middle), and Kankakee (or Southern). These divisions can be seen on all the maps except the one showing Bed Rock Geology.

The Northern Region owes its surface to the former southward extension of Lake Michigan. Lake Michigan developed three beach areas not including the present-day shoreline. These old beaches are shown on the Topography and Drainage map. The first and farthest from the current shoreline is Glenwood Beach which is located approximately along the present highway U.S. 30. Although this beach is not well defined in the county, distinct sand dunes can be found in the area between Dyer and Shererville. (Water fossils are not found in this beach area because the lake water was too cold.) The lake was then only a narrow crescent-shaped body a few miles wide with the Moraine Region and the glacier bounding it on the south and north, respectively. The estimated age of Glenwood's sandy beaches is 12,000 to 14,000 years.

The second beach is Calumet Beach which today can be easily traced along Ridge Road or old highway U.S. 6 from Munster to Glen Park. This beach is about 9,000 to 12,000 years old.

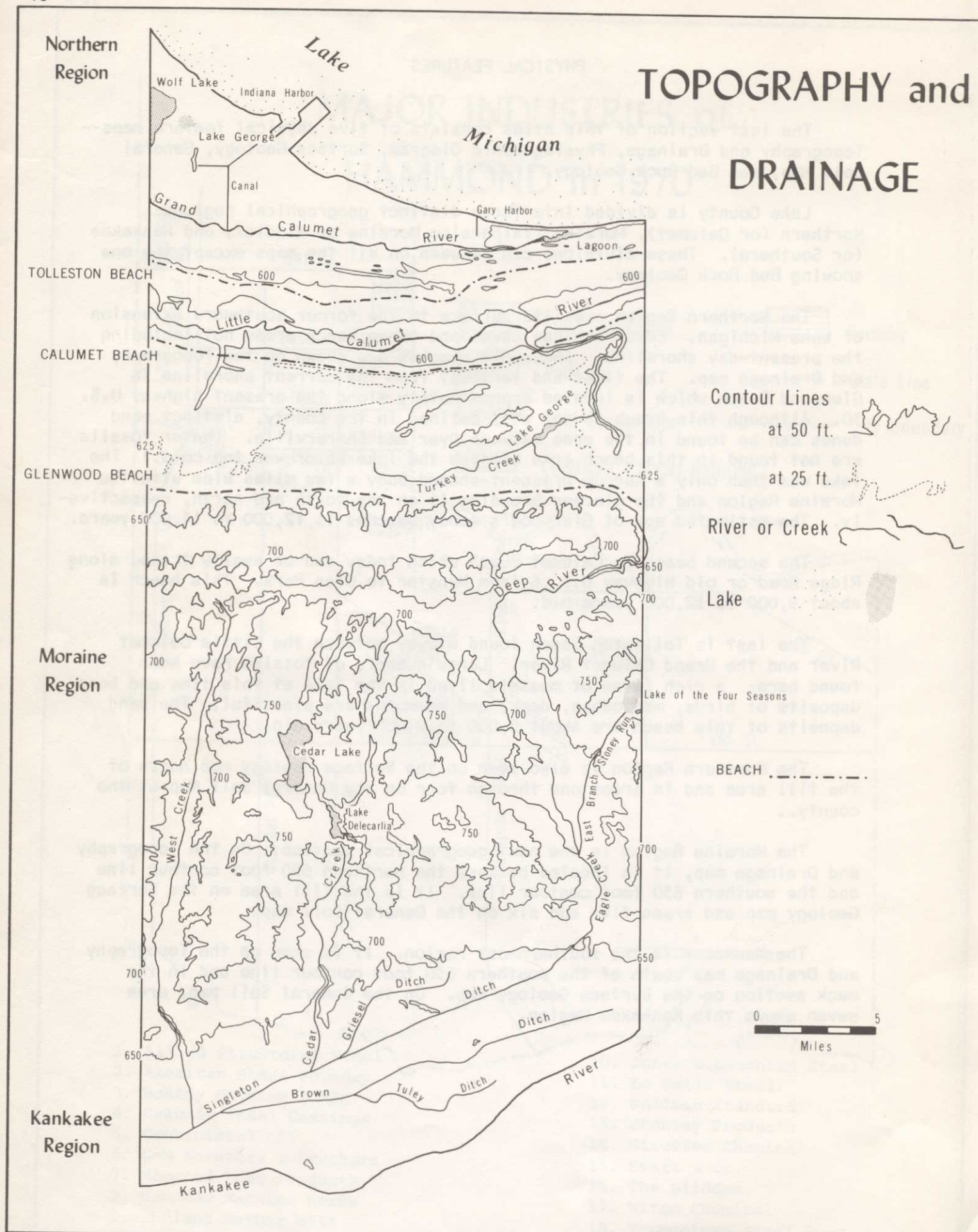
The last is Tolleston Beach found midway between the Little Calumet River and the Grand Calumet River. Large numbers of fossils have been found here: a rich fauna of mussels lived in the lake at this time and bone deposits of birds, mastodons, deer, and mammoths are plentiful. The sand deposits of this beach are about 5,000 to 9,000 years old.

The Northern Region is also seen on the Surface Geology map north of the till area and in areas one through four on the General Soil Map of the county..

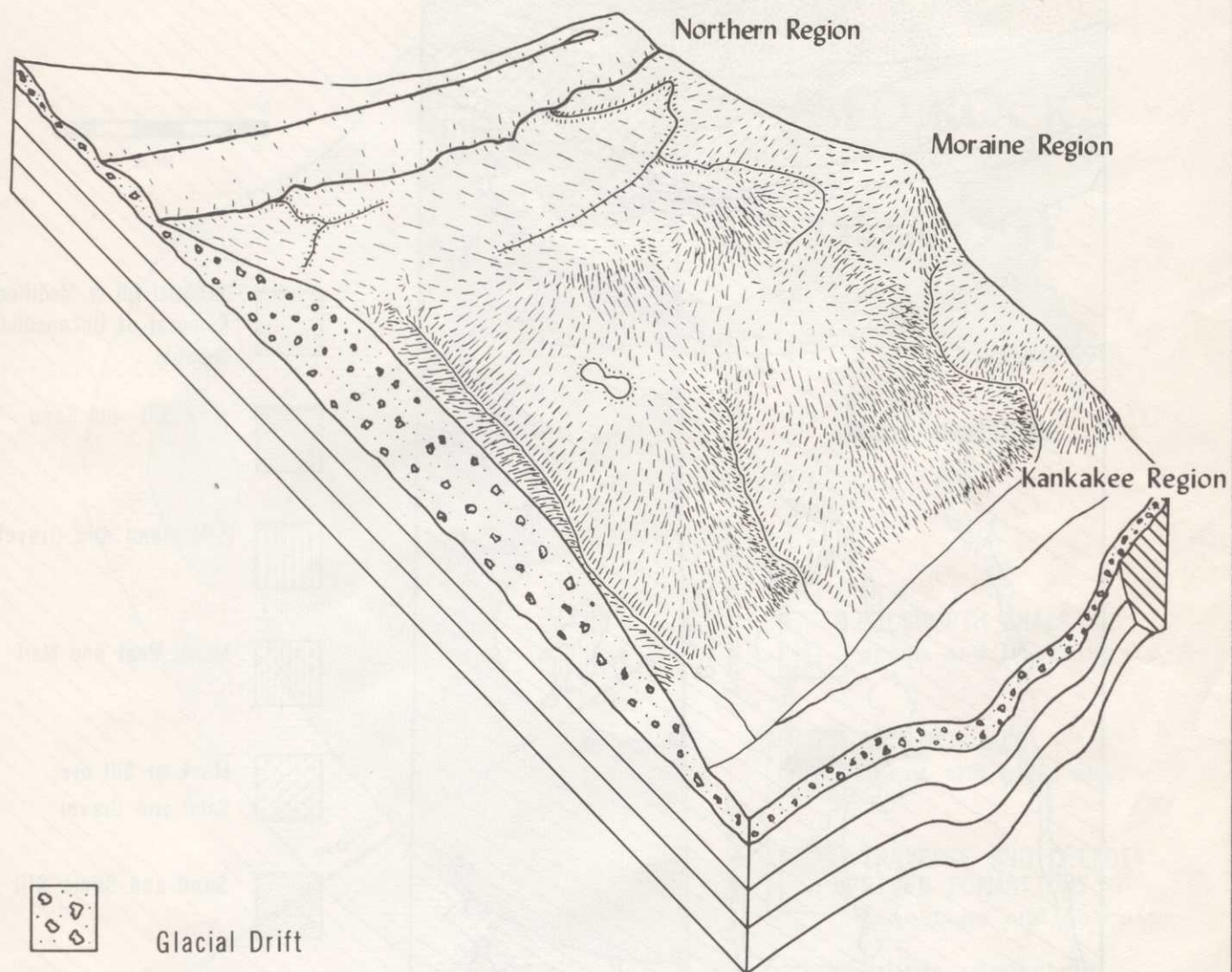
The Moraine Region is the next geographical section. On the Topography and Drainage map, it is located between the northern 650 foot contour line and the southern 650 foot contour line. It is the till area on the Surface Geology map and areas five and six on the General Soil map.

The Kankakee is the southernmost region. It is seen on the Topography and Drainage map south of the southern 650 foot contour line and in the muck section on the Surface Geology map. On the General Soil map, area seven shows this Kankakee Region.

TOPOGRAPHY and DRAINAGE



PHYSIOGRAPHIC DIAGRAM



Glacial Drift

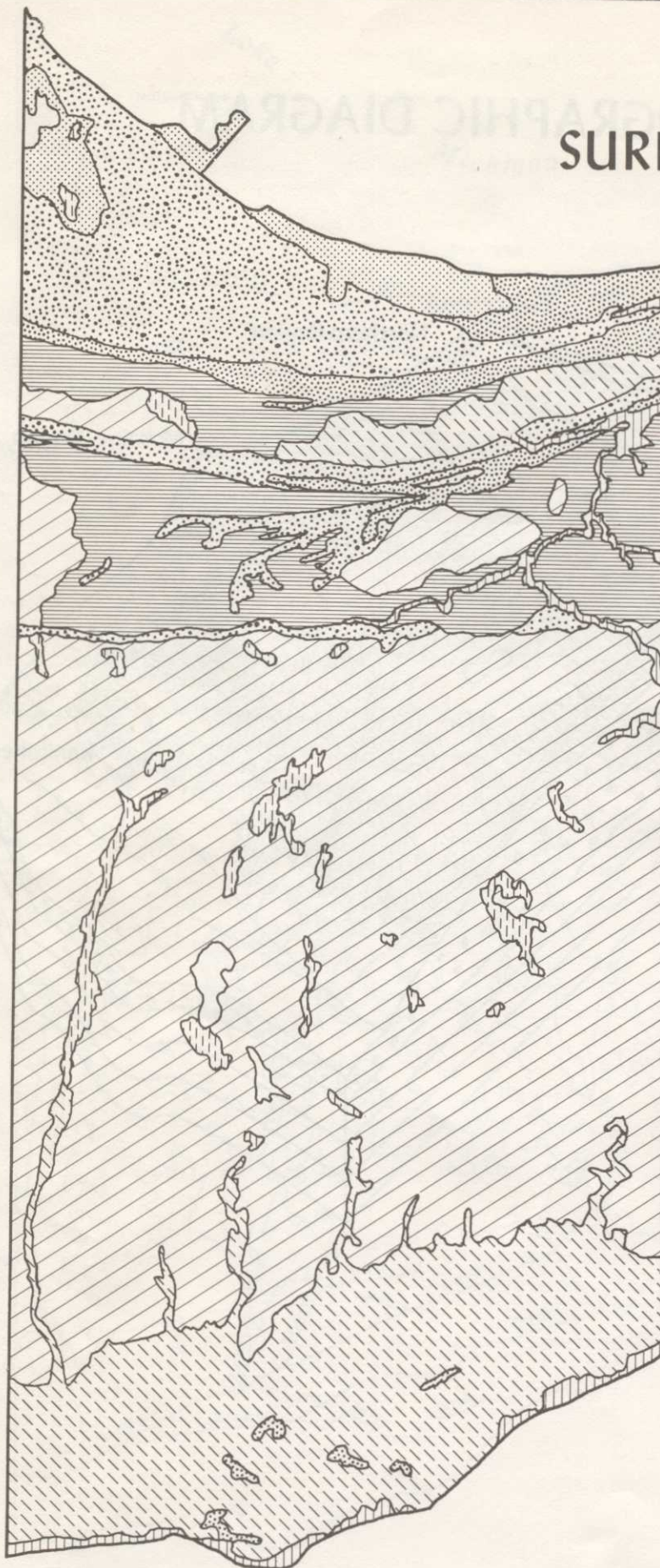


Niagaran Series



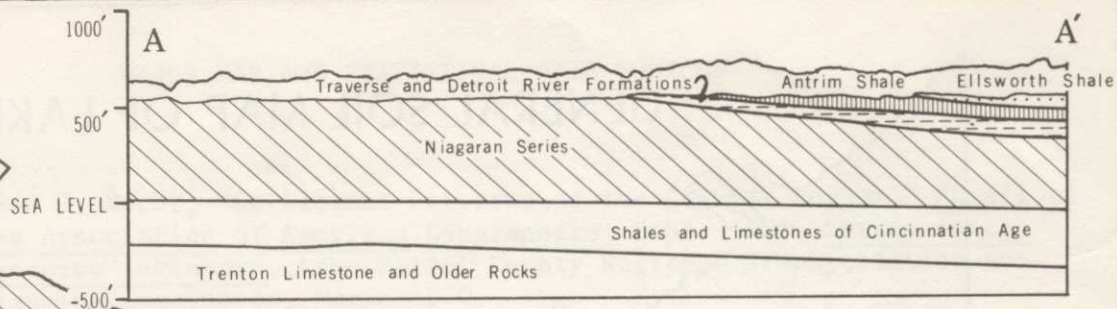
Salina Formations

SURFACE GEOLOGY

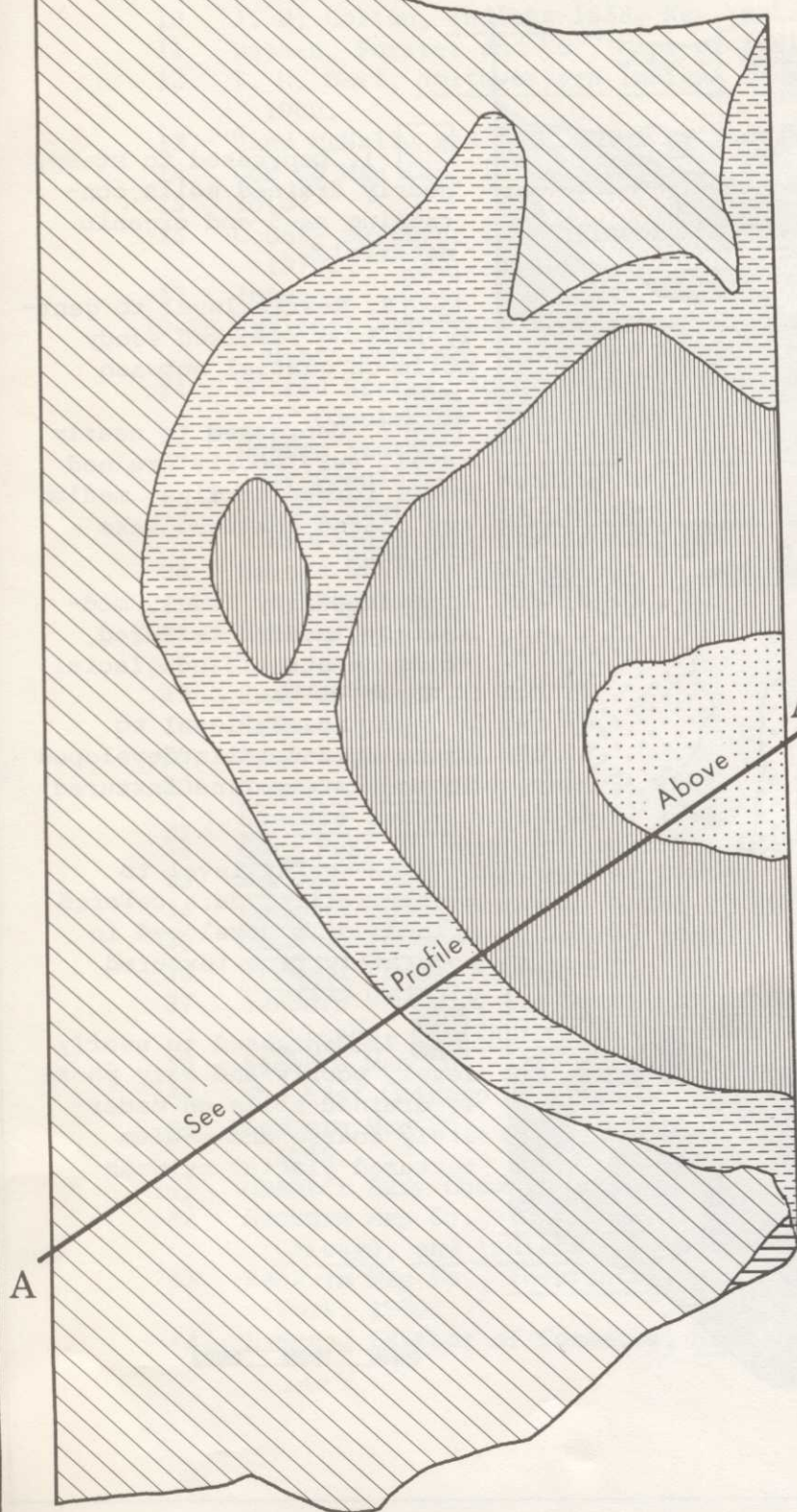
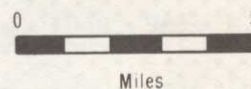


0 5
Miles

-  Artificial Fill or Modified by Removal of Unconsolidated Deposits
-  Clay, Silt and Sand
-  Silt, Sand and Gravel
-  Muck, Peat and Marl
-  Muck or Silt over Sand and Gravel
-  Sand and Some Silt
-  Sand and Gravel
-  Till



BED ROCK GEOLOGY



Devonian and Mississippian

Devonian

Silurian

ELLSWORTH SHALE
green and black shale

ANTRIM SHALE
black and gray shale

TRAVERSE AND DETROIT
RIVER FORMATIONS
limestone and dolomite

SALINA FORMATIONS
limestone and dolomite

NIAGARAN SERIES
dolomite, cherty line-
stone and shale

GENERAL SOIL MAP OF LAKE COUNTY



-  1. Depressed to steep, poorly drained soils containing sand and organic materials
-  2. Nearly level to gently rolling reworked sandy soils on glacial outwash
-  3. Depressed to nearly level, very poorly drained soils formed in fine, medium and coarse textured lake sediment
-  4. Nearly level, moderately, medium textured soils on stratified glacial outwash
-  5. Nearly level to steep upland soils developed in moderately fine textured glacial till
-  6. Nearly level to gently rolling dark colored upland soils developed in moderately fine textured glacial till
-  7. Depressed to nearly level, poorly and very poorly drained soils on moderately coarse and medium textured glacial outwash

0 5
Miles

MAJOR MAP AND STATISTICAL DATA SOURCES

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LAKE COUNTY, INDIANA, IN MAP

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